IZEUS 7000 NVR RANGE

8 & 16 Channel Network Video Recorders

User's Manual

V 1.0.0 03/2014

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Welcome

Thank you for purchasing our network video recorder!

This user's manual is designed to be a reference tool for your system. Please open the accessory bag to check the items one by one in accordance with the list below. Contact your local retailer ASAP if something is missing or damaged in the bag.

Here you can find information about the **iZeus 7000 NVR's** features and functions, as well as a detailed menu tree.

Before installation and operation please read the following safeguards and warnings carefully!

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Important Safeguards and Warnings

1．Electrical safety

- All installation and operation within this manual should conform to your local electrical safety codes.
- We assume no liability or responsibility for any fires or electrical shocks caused by improper handling or installation.

2．Transportation security

- Please avoid heavy stress, violent vibrations or water splashes during transportation, storage and installation. Please take heed, as this may cause permanent and irreversible damage to the unit.

3．Installation

- Handle product with care and the correct way up.
- Do not apply power to the NVR before completing installation.
- Do not place objects on top of the NVR.

4．Qualified engineers needed

- All the examination and repair work should be done by the qualified service engineers.
- We are not liable for any problems caused by unauthorized modifications or attempted repair.

5．Environment

- The NVR should be installed in a cool, dry place away from direct sunlight, flammable and/or explosive substances, etc..
- This product should be transported, stored and used in the specified environments.

6. Accessories

- Be sure to use all the accessories recommended by manufacturer.
- Before installation, please open the product packaging and check all the components are included.
- Contact your local retailer ASAP if something is broken within the packaging.

7. Lithium battery

- Improper battery use may result in hazardous consequences such as the start of fires, an explosion, or personal injury!
- When you need to replace the battery, please make sure you replace I with the same battery model!

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Before your operation please read the following instructions carefully.

Installation environment

- ✧ Keep away from extreme hot places and sources；
- ✧ Avoid direct sunlight；
- ✧ Keep away from extreme humid places；
- ✧ Avoid violent vibration；
- ✧ Do not put other devices on the top of the NVR；
- ✧ Be installed in well ventilated place; do not block the vent.

Accessories

Check the following accessories after opening the box：

Please refer to the packing list in the box

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1 Features and Specifications

1.1 Overview

The NVR delivers high performance within a networked security surveillance system. This series of NVR devices also support local preview, multiple-window display, recorded file local storage, remote control & mouse shortcut menu operation, and remote management & control function.

In addition to this it can also provide integral centre storage, front-end storage and client-end storage. The monitoring zone on the front-end can be setup anywhere. Working with other front-end devices within the Qvis product range, this product series can establish a strong surveillance network via the CMS. In order for the system to work you only need one network cable running from each security camera, to the monitor workstation, within the whole network. There is no need for multiple audio/video cables from the security cameras to the monitor workstation. The whole project features a simple connection, which reduces network installation costs and a low amount of maintenance work.

This series of NVRs can be widely used in many areas such as public security, water conservancy, transportation and education.

1.2 Features

Real-time Surveillance	• VGA, HDMI ports are provided to connect the NVR to a monitor so you can achieve real-time surveillance. • Short-cut on the menu interface to preview footage. • Supports popular PTZ decoder control protocols. Also supports preset, tour and pattern.
Playback	Supports: • Every channel independently records in real-time, simultaneously it can support search, forward play, network monitor, record search, download, etc.. • Various playback modes: slow play, fast play, backward play and frame by frame play. • Time title overlaying so that you can view the precise time of when an incident has occurred. • Specified zone enlargement.
Network Monitoring	• Through network, sending audio/video data compressed by IPC or NVS to client-ends, then the data will be decompressed and display. • Support max 128 connections at the same time. • Transmit audio/video data by HTTP, TCP, UDP, MULTICAST, RTP/RTCP , etc.. • Transmit some alarm data or alarm info by SNMP. • Support WEB access in WAN/LAN.
Window Split	• Adopt the video compression and digital process to display multiple windows on one monitor. Supports 1/4/8/16-window display.
User Management	• Each group has different management allowances that can be edited freely. Every user belongs to an exclusive group.

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Record	• Scheduled record function: save the recorded files on to the HDD, client-end PC, or network storage server. You can search or playback the saved files at the local-end or via the Web.
Storage	• Via corresponding setup (such as alarm setup and schedule setup), you can backup related audio/video data onto the network video recorder. • Supports network record and devices can record local video and store the file at the client end.
Backup	• Supports network backup, USB2.0 record backup function, the recorded files can be saved on to a network storage server, peripheral USB2.0 device, burner, etc..
Network Management	• Supervise NVR configuration and control power via an Ethernet connection. • Supports network management remotely via the internet.
Peripheral Equipment Management	• Supports peripheral equipment management such as protocol setup and port connection. • Supports transparent data transmission such as RS232 (RS-422), RS485 (RS-485).
Auxiliary	• Supports both NTSC and PAL video formats. • User can access real-time system resource information and running statistics display. • Supports log files. • Local GUI output. Shortcut menu operation via mouse. • IR control function. Shortcut menu operation via remote control. • Support IPC or NVS remote video preview and control.

1.3 Specifications

1.3.1 iZeus 7000 8 Channel 1U

Parameter	**Specifications**
	72-8P Series
System Resources	Supports 8 channel HD connections. The main stream bandwidth supports 48/96/192/192Mbps.
Operation System	Embedded Linux real-time operation system
Operation Interface	WEB/Local GUI
Video Compression	H.264/MJPEG
Decode Capacity	Max supports 32-channel D1, or 16-channel 720P, or 8-channel 1080P decode.
Audio Compression	G.711a
Video Output	1-channel VGA analog video output.
Video Input	8/16/32/64-ch network compression video input
HDMI	1-ch HDMI output.

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Audio Input	1-ch bidirectional talk input
Audio Output	1-ch bidirectional talk output
Window Split	1/4/8/9/16/25/36-window
Multiple-channel Playback	Max 16-channel 720P/8-channel 1080P playback.
Alarm Input	8-ch alarm input
Alarm Output	3-ch alarm output
	Relay output. Relay （DC 30V 1A，AC 125V 0.5A（Activation output）） Including one controllable DC +12V output.
Storage	2 built-in SATA ports.
RS232 Port	One RS232 port to debug transparent COM data.
RS485 port	One RS485 port to control PTZ. Support various protocols.
USB2.0 Port	2 peripheral USB2.0 ports. One at the front panel and one at the rear panel.
Network Connection	One RJ45 10/100Mbps self-adaptive Ethernet port.
Power Port	One power port. Input 100-240V，47~63Hz.
Power Button	One button at the rear panel.
Power On-off Button	One button at the front-panel.
IR Receiver Window	Support IR remote control
Clock	Built-in clock.
Indication Light	One power status indicator light. One network status indicator light. One HDD status indicator light.
Power Consumption	＜30W(Exclude HDD)
Working Temperature	-10℃～+55℃
Working Humidity	10%－90%
Air pressure	86kpa－106kpa
Dimension	1U case. 295mm×275mm×47mm
Weight	1.5~2.5KG（Exclude HDD）
Installation	Desk installation

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1.3.2 iZeus 7000 16 Channel 1.5U

Parameter	Specifications
	74-16P Series
System Resources	Supports 16 Channel HD connections. The main stream bandwidth supports 48/96/192/192Mbps.
Operation System	Embedded Linux real-time operation system
Operation Interface	WEB/Local GUI
Video Compression	H.264/MJPEG
Decode Capacity	Max supports 32-channel D1, or 16-channel 720P, or 8-channel 1080P decode.
Audio Compression	G.711a
Video Output	1-channel VGA analog video output.
Video Input	8/16/32/64-ch network compression video input
HDMI	1-ch HDMI output.
Audio Input	1-ch bidirectional talk input
Audio Output	1-ch bidirectional talk output
Window Split	1/4/8/9/16/25/36-window
Multiple-channel Playback	Max 16-channel 720P/8-channel 1080P playback.
Alarm Input	16-ch alarm input
Alarm Output	6-ch alarm output
	Relay output. Relay （DC 30V 1A，AC 125V 0.5A（Activation output）） Including one controllable DC +12V output.
Storage	4 built-in SATA ports.
	1 external eSATA port.
RS232 Port	One RS232 port to debug transparent COM data.
RS485 port	One RS485 port to control a PTZ camera. Support various protocols.
USB2.0 Port	3 peripheral USB2.0 ports. One at the front panel and two at the rear panel.
Network Connection	One RJ45 10/100Mbps self-adaptive Ethernet port.
Power Port	One power port. Input 100-240V，50~60Hz.
Power Button	One button. At the rear panel.

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Power On-off Button	One button. At the front-panel.
IR Receiver Window	Support IR remote control
Clock	Built-in clock.
Indication Light	One power status indicator light. One network status indicator light. One HDD status indicator light.
Power Consumption	＜30W(Exclude HDD)
Working Temperature	-10℃～+55℃
Working Humidity	10%－90%
Air pressure	86kpa－106kpa
Dimension	1.5U, 440mm × 460mm × 68mm
Weight	5~6KG（Exclude HDD）
Installation	Desk installation

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2 Front Panel and Rear Panel

2.1 Front Panel: 8 Channel NVR

The front panel is shown in Figure 2-1.

Figure 2-1

2.2 Front Panel: 16 Channel NVR

The front panel is shown in Figure 2-2.

Figure 2-2

2.3 Front Panel: Function Explanation

Please refer to the following sheet for front panel button information for both 8 & 16 Channel NVR.

Name	Icon	Function
Power button	⏻	Power button, press this button for three seconds to boot up or shut down NVR.
Shift	Shift	In textbox, press this button to switch between numeral, English(Small/Capitalized),donation, etc..
Up Down	▲、▼	Activate current control, modify setup, and then move up and down.
		Increase/decrease numeral.

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		Assistant function such as PTZ menu.
Left Right	◄ ►	Shift current activated control
		During playback, press these buttons to control playback bar. .
ESC	ESC	Go to previous menu, or cancel current operation.
		When playback, press to restore to real-time monitor mode.
Enter	ENTER	Confirm current operation
		Go to default button
		Go to menu
Record	REC	Manually stop/start recording, work with the direction or numeral keys to select the recording channel.
Slow play/8	▮▸	Multiple slow play speeds or normal playback. In text mode, input number 8 (English character T/U/V).
Assistant	Fn	One-window monitor mode, press this button to display the assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5 seconds to delete the previous character before the cursor.
		Whilst within the motion detection setup, working with Fn and direction keys to carry out functional setup.
		In text mode, press it to switch between numeral, English character(small/capitalized), etc..
		Carry out other special functions.
Fast play/7	▸▸	Various fast speeds and normal playback. In text mode, input number 7 (English character P/Q/R/S).
Play previous/0	|◄	In playback mode, playback the previous video In text mode, input number 0.
Reverse/Pause/6	||◄	In normal playback or pause mode, press this button to reverse playback. In reverse playback, click this button to pause playback. In text mode, input number 6 (English character M/N/O).
Play Next/9	►|	In playback mode, playback the next video. In menu setup, use this button to go down the dropdown list. In text mode, input number 9 (English character W/X/Y/Z)
Play/Pause /5	►||	In normal playback mode, click this button to pause playback. In pause mode, click this button to resume playback. In text mode, input number 5 (English character J/K/L).

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USB port		To connect USB storage device or USB mouse.
Network abnormal indication light	Net	This indicator will light up, to alert you to when a network error has occurred or there is no network connection.
HDD abnormal indication light	HDD	This indicator will light up, to alert you to when a HDD error has occurred or the HDD capacity is below specified threshold value.
Record light	1-16	This indicator will light up to say if the system is recording.
IR Receiver	IR	This is to receive the signal from the remote control.

2.4 Rear Panel: 8 Channel

The 16 Channel NVR rear panel is shown below. See Figure 2-3:

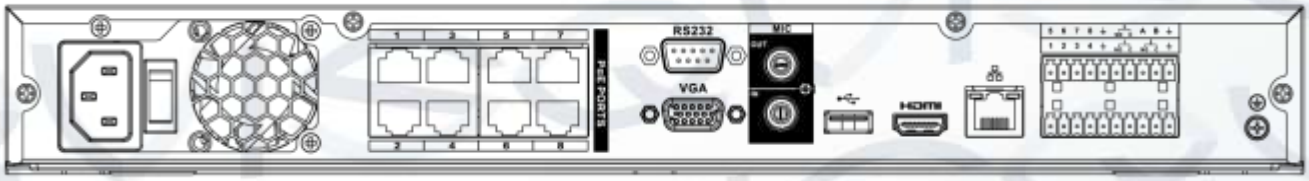

Figure 2-3

Please refer to the following sheet for detailed information:

Name		Function
	USB2.0 port	USB2.0 port. Connect to mouse, USB storage device, USB burner , etc..
	Network port	10M/100M/1000Mbps self-adaptive Ethernet port. Connect the network cable.
RS-232	RS-232 debug COM.	This is for general COM debug to configure IP address or transfer transparent COM data.
HDMI	High Definition Media Interface	High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.

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Name		Function
1～8	Alarm input port 1～8	• There are two groups. The first group is from port 1 to port 4; the second group is from port 5 to port 8. They receive the signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). • When your alarm input device is using external power, please make sure the device and the NVR use the same ground.
⏚	GND	Alarm input ground port.
NO1～NO3	Alarm output port 1～3	• 3 groups of alarm output ports. (Group 1：port NO1 ～ C1,Group 2:port NO2 ～ C2,Group 3:port NO3～C3）). Output alarm signal to the alarm device. Please make sure there is power to the external alarm device. • NO：Normal open alarm output port. • C：Alarm output public end.
C1～C3		
A	RS-485 communication port	RS485_A port. This is for cable A. You can connect to the control devices such as speed dome PTZ.
B		RS485_B.This is for cable B. You can connect to the control devices such as speed dome PTZ.
	Power input port	Input AC 100~240V.
Power switch	/	Power on-off button.
PoE PORTS	/	Bult-in Switch. Supports PoE. The 8 PoE product supports total 48V 120W. One PoE port max supports 15W.
MIC IN	Audio input port	Bidirectional talk input port. This is to receive the analog audio signal output from the devices such as mike phone, pickup.
MIC OUT	Audio output port	Audio output port. This is to output the analog audio signal to the devices such as the sound box. • Bidirectional talk output. • Audio output on 1-window video monitor. • Audio output on 1-window video playback.

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2.5 Rear Panel: 16 Channel

The 16 Channel NVR rear panel is shown below. See Figure 2-4:

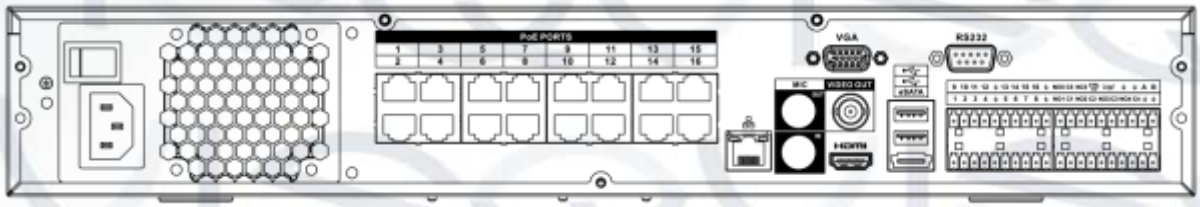

Figure 2-4

Please refer to the following sheet for detailed information.

Port Name		Function
Power switch	/	Power on-off button
Power input port	/	Input AC 100~240V.
MIC IN	Audio input port	Bidirectional talk input port. This is to receive the analog audio signal output from the devices such as mike phone, pickup.
MIC OUT	Audio output port	Audio output port. This is to output the analog audio signal to the devices such as the sound box. • Bidirectional talk output. • Audio output on a 1-window video monitor. • Audio output on a 1-window video playback.
VIEDEO OUT	Video output port	CVBS output
1～16	Alarm input port 1～16	• There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from 9 to 12, and the fourth group is from 13 to 16. They are used to receive the signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). • When your alarm input device is using external power, please make sure the device and the NVR have the same ground.
⏚	GND	Alarm input ground port.
NO1～NO5	Alarm output port 1～5	• 5 groups of alarm output ports. (Group 1：port NO1～C1,Group 2:port NO2～C2,Group 3:port
C1～C5		

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Port Name		Function
NC5		NO3～C3, Group 4：port NO4～C4, Group 5: port NO5, C5, NC5). Output alarm signal to the alarm device. Please make sure there is power to the external alarm device. • NO: Normal open alarm output port. • C: Alarm output public end. • NC: Normal close alarm output port.
A	RS-485 communication port	RS485_A port. This is for cable A. You can connect to the control devices such as speed dome PTZ.
B		RS485_B.This is for cable B. You can connect to the control devices such as speed dome PTZ.
CTRL 12V	/	Controller 12V power output. This is to control the on-off alarm relay output. It can be used to control the device alarm output. At the same time, it can also be used as the power input source of some devices such as the alarm detector.
+12V	/	+12V power output port. It can provide the power to some peripheral devices such as the camera or the alarm device. Please note the supplying power needs to be below 1A.
	Network port	10M/100M/1000Mbps self-adaptive Ethernet port. Connect to the network cable.
eSATA	eSATA port	External SATA port. It can connect to the device of the SATA port. Please jump the HDD when there is peripheral connected HDD.
	USB2.0 port	USB2.0 port. Connect to mouse, USB storage device, USB burner , etc..
RS-232	RS232 debug COM.	This is for general COM debug to configure IP address or transfer transparent COM data.
HDMI	High Definition Media Interface	High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.3
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.
PoE PORTS	8 PoE ports	Built-in Switch. Support PoE. The 8 PoE ports series products supports total 48V 120W power. One PoE port supports max 15W.
PoE PORTS	16 PoE ports	Built-in Switch. Support PoE. The 16 PoE ports series products supports total 150W power. One PoE port supports max 15W.

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2.6 Alarm Connection

2.6.1 Alarm Port

The alarm port is shown below. See Figure 2-5.

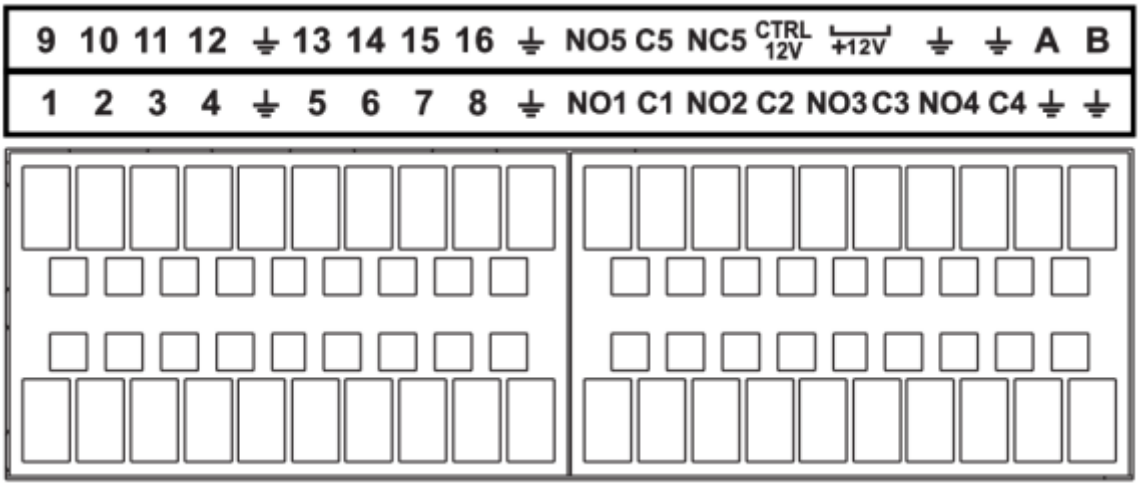

Figure 2-5

Icon	Function
1～16	ALARM1～ALARM16. The alarm becomes activated in the low level.
NO1 C1，NO2 C2，NO3 C3，NO4 C4	Four NO activation output groups. (On-off button).
NO5 C5 NC5	One NO/NC activation output group. (On-off button).
CTRL 12V	Control power output. Disable power output when alarm is canceled. Current is 500mA.
＋12V	Rated current output. Current is 500mA.
⏚	GND
A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect 120TΩ between A/B cables if there are too many PTZ decoders.

2.6.2 Alarm input port

Connect the positive end (+) of the alarm input device to the alarm input port (ALARM IN 1～16) of the NVR. Connect the negative end (-) of the alarm input device to the ground end (⏚) of the NVR.

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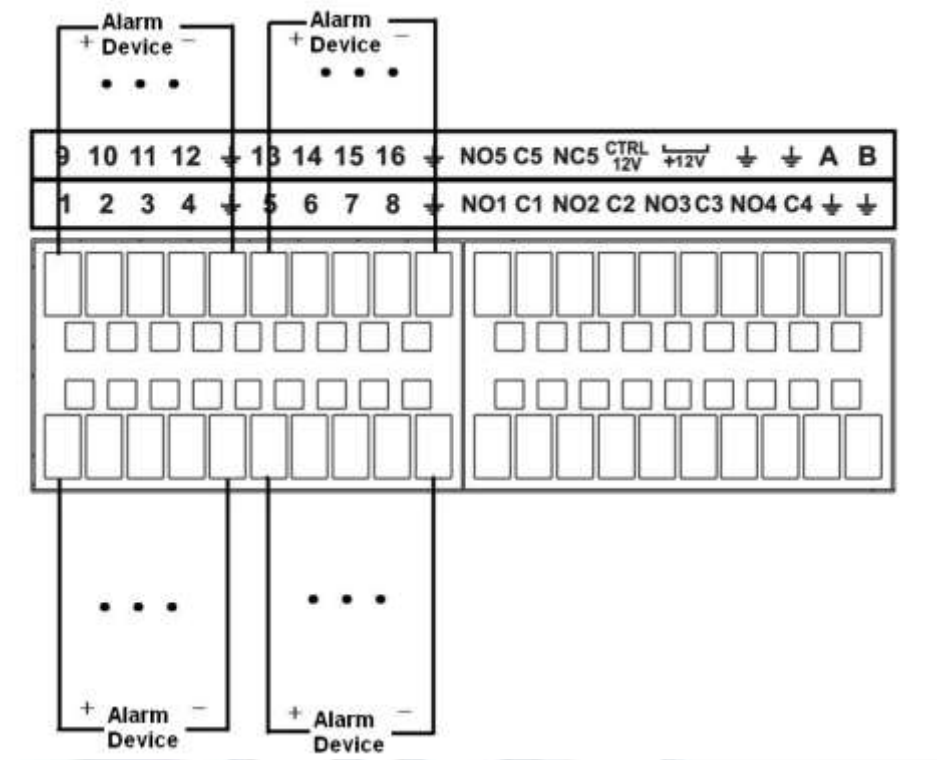
Alarm Device
Alarm Device
9 10 11 12 13 14 15 16 NO5 C5 NC5 CTRL 12V +12V A B
1 2 3 4 5 6 7 8 NO1 C1 NO2 C2 NO3 C3 NO4 C4
Alarm Device
Alarm Device

Figure 2-6

Note

- There are two alarm input types: NO/NC.
- When connect the ground port of the alarm device to the NVR, you can use any of the GND ports ( ).
- Connect the NC port of the alarm device to the alarm input port (ALARM) of the NVR.
- When there is peripheral power supplying for the alarm device, please make sure This is earthed with the NVR.

2.6.3 Alarm input and output port

- There is peripheral power supplying for the external alarm device.
- In case overload may result in NVR damage, please refer to the following relay specifications for detailed information.
- A/B cable of the RS485 is for the A/B cable connection of the speed PTZ.

2.6.4 Alarm relay specifications

Material of the touch	Silver	
Rating （Resistance Load）	Rated switch capacity	30VDC 2A, 125VAC 1A
	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	Between touches with same polarity	1000VAC 1minute

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	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500V (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50×106 MIN (3Hz)
	Electrical	200×103 MIN (0.5Hz)
Temperature	-40℃ ~+70℃	

2.7 Bidirectional talk

2.7.1 Device-end to PC-end

Device Connection

Please connect the speaker or the pickup to the first audio input port in the device rear panel. Then connect the earphone or the audio speaker to the audio output port in the PC. Log in to the network and then enable the corresponding channel real-time monitor.

Please refer to the following interface to enable bidirectional talk. See Figure 2-7.

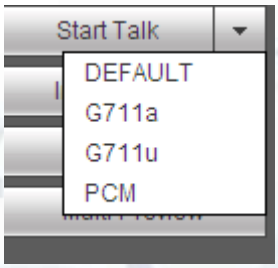

Figure 2-7

Audio Output Operation

At the device end, speak via the microphone or the pickup, and then you can get the audio from the earphone or sound box at the pc-end. See Figure 2-8.

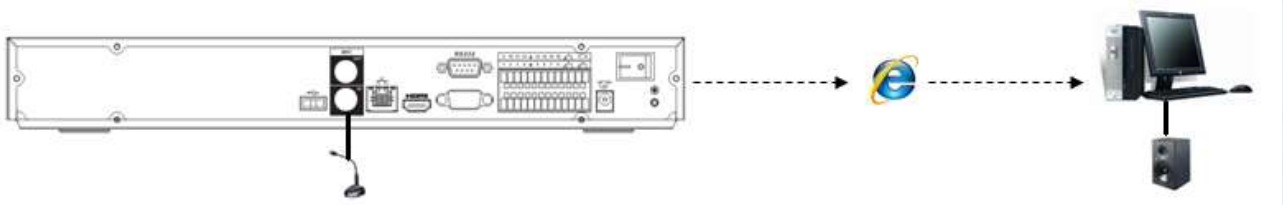

Figure 2-8

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2.7.2 PC-end to the device-end

Device Connection

Connect the microphone or the pickup to the audio output port in the PC and then connect the earphone or the sound box to the first audio input port in the device rear panel. Login the Web and then enable the corresponding channel real-time monitor.

Please refer to the above interface (Figure 2-8) to enable bidirectional talk.

Listening Operation

At the PC-end, speak via the speaker or the pickup, and then you can get the audio from the earphone or sound box at the device-end. See Figure 2-8.

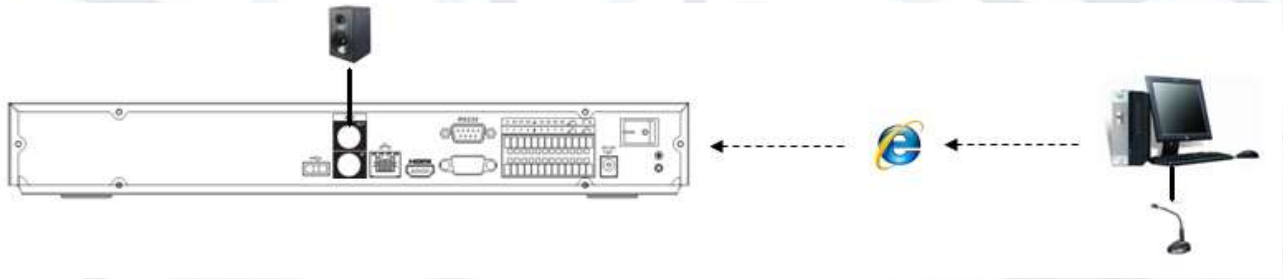

Figure 2-8

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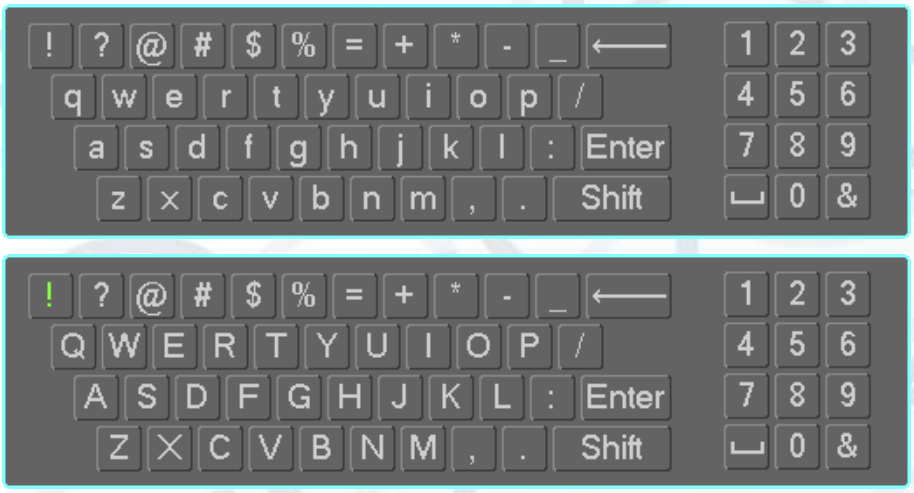
2.8 Mouse Operation

Please refer to the following sheet for mouse operation instruction:

Left click mouse	When you have selected one menu item, left click mouse to view menu content.
	Modify checkbox or motion detection status.
	Click the 'Combo' box to pop up dropdown list
	In the input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalised). Here the ← stands for backspace button. __ stands for space button. In English input mode: _ stands for input a backspace icon and ← stands for deleting the previous character.  In numeral input mode: _ stands for clear and ← stands for deleting the previous numeral.
Double left click mouse	Implement special control operation such as double click one item in the file list to playback the video.
	In multiple-window mode, double left click one channel to view in full-window. Double left click current video again to go back to previous multiple-window mode.
Right click mouse	In real-time monitor mode, this action pops up shortcut menu.
	Exit current menu without saving the modification.
Press middle button	In numeral input box: Increase or decrease numeral value.
	Switch the items in the check box.
	Page up or page down
Move mouse	Select current control or move control
Drag mouse	Select motion detection zone
	Select privacy mask zone.

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3 Network Connection

Please refer to Figure 3-1 below for the 8 channel 1U NVR's connection example.

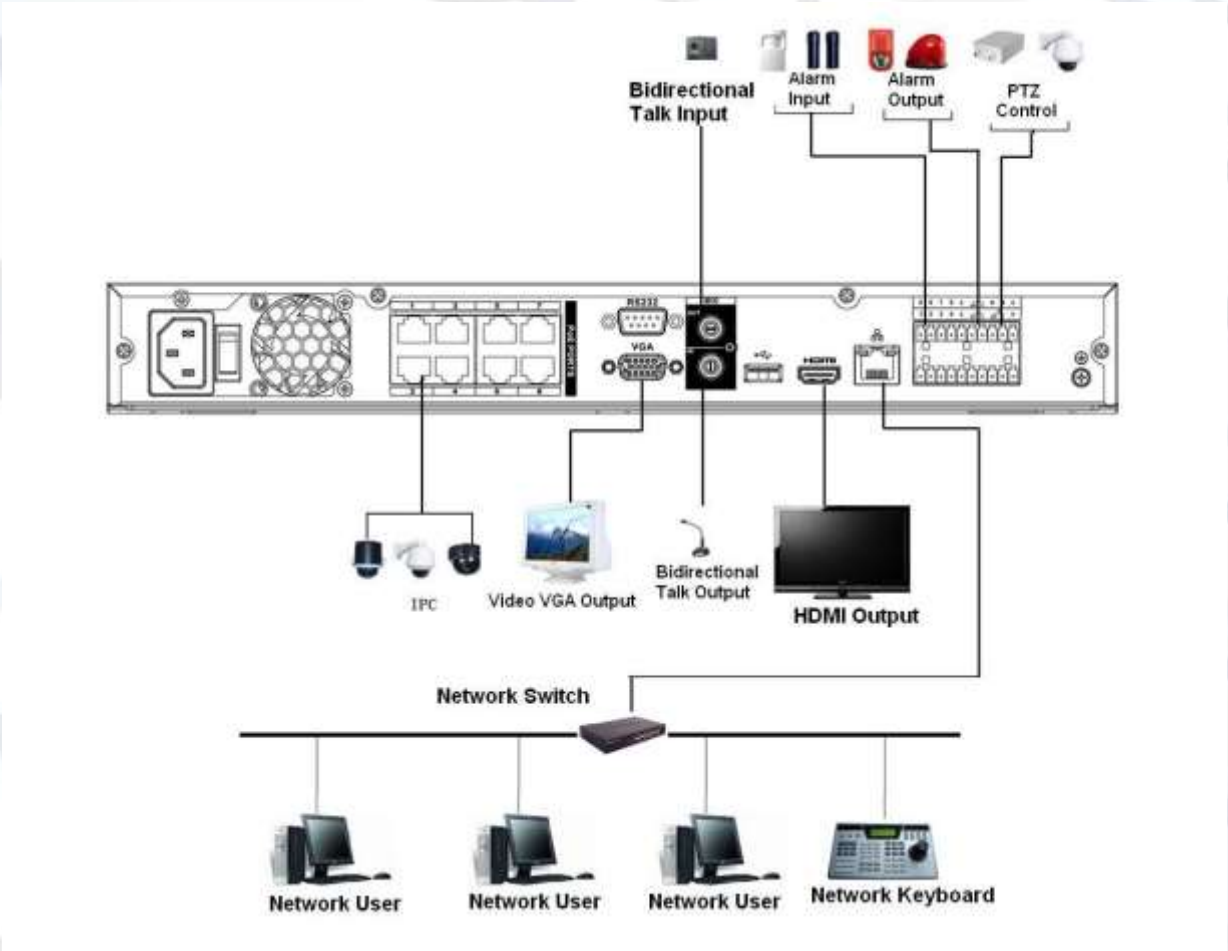

Figure 3-1

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Please refer to Figure 3-2 below for the 16 channel 1.5U NVR's connection example.

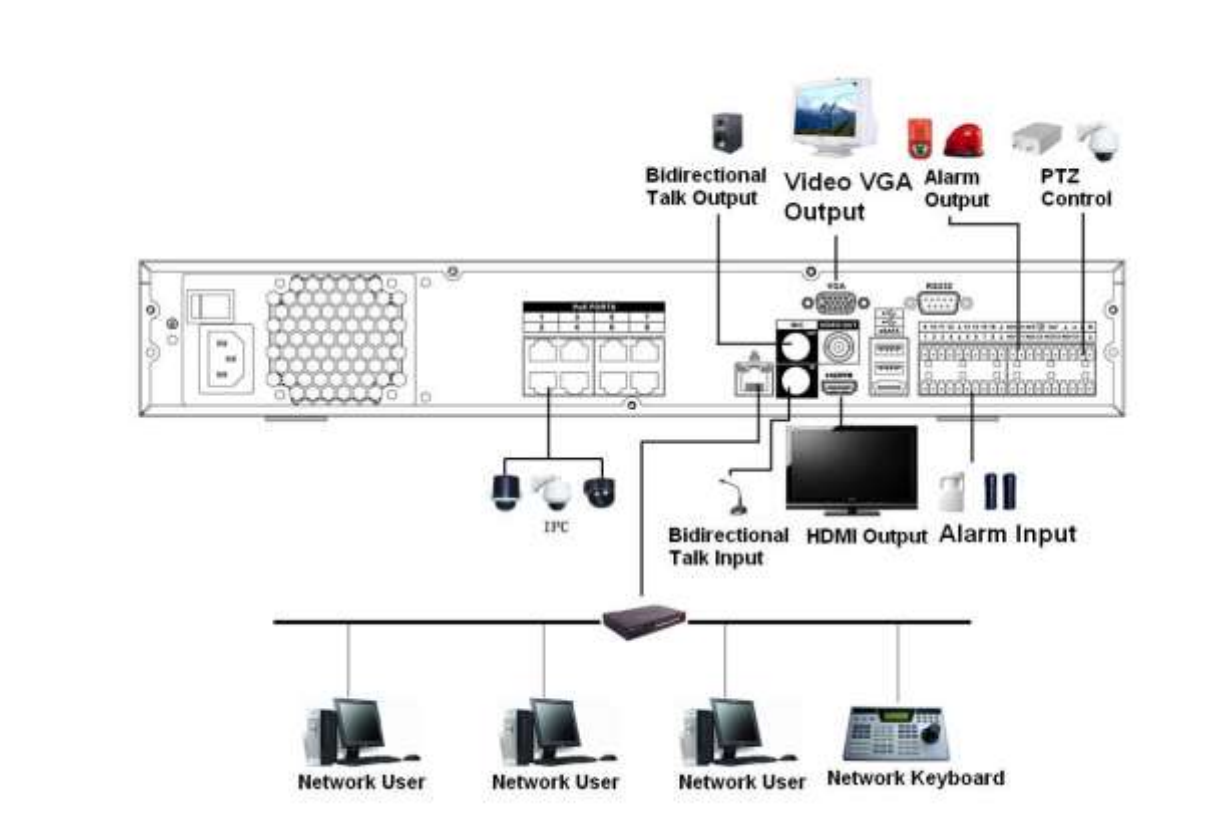

Figure 3-2

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4 Local Basic Operation

4.1 Boot up and Shutdown

4.1.1 Boot up

Before the boot up, please make sure:

- The rated input voltage matches the device's power on-off button. Please make sure the power wire connection is securely in place. Then switch on the power on-off button.
- Always use the stable current, if necessary an Uninterruptible Power Supply is one of the best alternative measures to protect device from unstable electrical environments, which are prone to spikes or dropouts.
  Please follow the steps listed below to boot up the device.
- Connect the device to the monitor and then connect a mouse.
- Connect power cable.
- Press the power button at the front or rear panel and then boot up the device. After device booted up, the system is in multiple-channel display mode by default.

4.1.2 Shutdown

Notes:

- When you see the corresponding dialogue box "**System is shutting down…**" Do not click power on-off button whilst shutdown is in process.
- Do not unplug the power cable or click power on-off button to shutdown device directly when device is running (especially when This is recording).

There are three ways for you to log out.

1. Main menu (**RECOMMENDED**). From Main Menu->Shutdown, select shutdown from dropdown list. Click OK button, you will see that the device shuts down.

2. From power on-off button on the front panel. Press the power on-off button on the NVR front panel or remote control for more than 3 seconds to shut down the device.

3. From power on-off button on the rear panel.

4.2 Startup Wizard

After the device has successfully booted up, it will proceed to startup wizard.

Click Cancel/Next button, you can see system goes to login interface.

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Tips

- Tick the **'Startup'** box button here, system goes to startup wizard again when it boots up the next time.
- Cancel the Startup button, system goes to the login interface directly when it boots up the next time round.

Figure 4-1

Click the Cancel button or Next Step button, system goes to login interface. See Figure 4-2. System consists of four accounts:

- **Username**: admin. **Password**: admin. (administrator, local and network)
- **Username**: 888888. **Password**: 888888. (administrator, local only)
- **Username**: 666666. **Password**: 666666 (Lower authority user who can only monitor, playback, backup, etc..)
- **Username**: default. **Password**: default (hidden user). Hidden user "default" is for system interior use only and cannot be deleted. When there is no login user, hidden user "default" automatically login. You can set the some rights such as monitor for this user so that you can view some channel view without login.

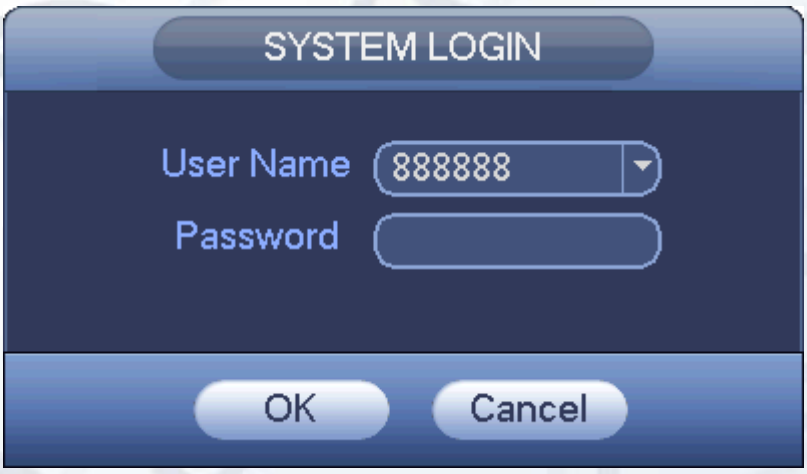

Figure 4-2

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Note:
For security reason, please modify password after your first login.

The result of you having three login failures within a 30 minute time frame will trigger the system alarm and after five login failures the account will be locked!

Click OK button, you can go to General interface. See Figure 4-3.

Figure 4-3

Click Next button, you can go to network interface. See Figure 4-4

Figure 4-4

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Click Next button, you can go to remote device interface. See Figure 4-5.

Figure 4-5

Click Next button, you can go to Schedule interface. See Figure 4-6.

Figure 4-6

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Click the Finish button, the system will then pop up a dialogue box. Click the OK button, the startup wizard will then be complete. See Figure 4-7.

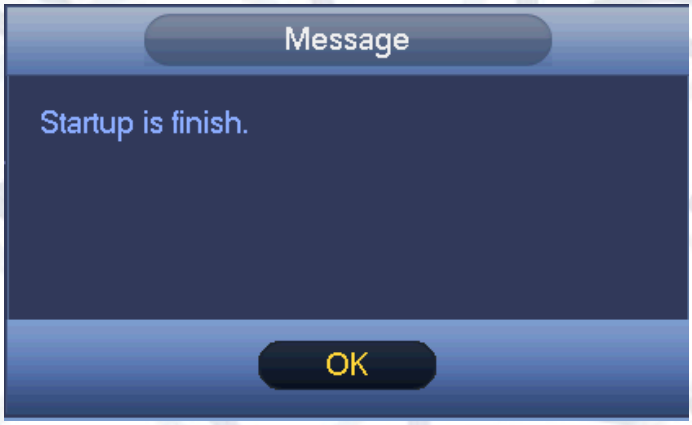

Figure 4-7

4.3 Navigation Bar

You need to go to the **Main menu->Setting->System->General** to enable navigation bar function; otherwise you cannot see the following interface.

The navigation bar is shown below. See Figure 4-8.

Figure 4-8

4.3.1 Main Menu

Click button to go to the main menu interface.

4.3.2 Output Screen

Select corresponding window-split mode and output channels.

4.3.3 Tour

Click button to enable tour, the icon becomes , you can see the tour is in process.

4.3.4 PTZ

Click , the system goes to the PTZ control interface. Please refer to chapter 4.6.2.

4.3.5 Color

Click button , the system goes to the color interface. Please refer to chapter 4.5.4.1.

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Please make sure system is in one-channel mode.

4.3.6 Search

Click button , the system goes to the search interface. Please refer to chapter 4.8.2

4.3.7 Alarm Status

Click button , system goes to alarm status interface. This is to view device status and channel status. Please refer to chapter 4.14.1.4.

4.3.8 Channel Info

Click button , the system goes to the channel information setup interface. This is to view information of the corresponding channel. See Figure 4-9.

CHANNEL INFO
Channel Motion Video Loss Tampering Record Status Record Mode Resolution Frame Rate Bit Rate(K
1 Manual 960*576 25 95
2 Regular 960*576 25 23
3 Regular 960*576 25 95
4 Regular 960*576 25 69
5 Regular 960*576 25 23
6 Regular 960*576 25 70
7 Regular 960*576 25 68
8 Regular 960*576 25 70
9 Regular 960*576 25 70
10 Regular 960*576 25 120
11 Regular 960*576 25 69
12 Regular 960*576 25 71
13 Regular 960*576 25 71
14 Regular 960*576 25 70
15 Regular 960*576 25 70
16 Regular 960*576 25 71
17 Regular 1920*1080 25 8071
18 Regular 1280*960 25 4062
19 Regular 1280*720 30 0
Refresh

Figure 4-9

4.3.9 Remote Device

Click , system goes to the remote device interface. Please refer to chapter 4.4

4.3.10 Network

Click , system goes to the network interface. This is to set network IP address, default gateway , etc.. Please refer to chapter 4.11.

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4.3.11 HDD Manager

Click , the system goes to the HDD manager interface. This is to view and manage HDD information. Please refer to chapter 4.12.1.

4.3.12 USB Manager

Click , the system goes to the USB Manager interface. This is to view the USB information, backup and update. Please refer to chapter 4.9.1 file backup, chapter 4.9.3 backup log, chapter 4.9.2 import/export, and chapter 4.14.4 upgrade for detailed information.

4.4 Remote Device

4.4.1 Remote Device Connection

From **Main menu->Setting->Remote device** or right click mouse on the preview interface and then select remote device item, you can see the following interface. See Figure 4-10.

Figure 4-10

Click Device search button, you can view the searched IP addresses at the top pane of the interface.

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Double click an IP address or check one IP address and then click Add button, you can add current device to the bottom pane of the interface. System supports batch add function.

Click Manual Add button, you can add a device directly. Here you can set the TCP/UPD/auto connection mode. The default setup is TCP. See Figure 4-11.

IMPORTANT!
Please note the manual add function is for, Panasonic, Sony, Dynacolor, Samsung, AXIS, Arecont, ONVIF and Custom. When the type is the custom, you can just input URL address, user name and password connect to the network camera without considering network camera manufacture. Please contact your network camera manufacturer for the URL address.

Figure 4-11

4.4.2 Short-Cut Menu

In the preview interface, for the channel with no IPC connection, you can click the icon **“+”** in the centre of the interface to quickly go to the Remote Device interface. See Figure 4-12.

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Figure 4-12

4.4.3 Image

From **main menu->setting->camera->image**, you can see the image interface is shown below. See Figure 4-13.

- **Channel:** Select a channel from the dropdown list.
- **Saturation:** This is to adjust the monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not look great if the value is too low. The recommended value ranges from 40 to 60.
- **Brightness:** This is to adjust monitor window bright. The value ranges from 0 to 100. The default value is 50. The larger the number is, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
- **Contrast:** This is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video's brightness is OK but the contrast is not correct. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
- **Auto Iris:** This is for the device of the auto lens. You can check the box before ON to enable this function. The auto iris may change if the light becomes different. When you disable this function, the iris is at the max. System does not add the auto iris function in the exposure control. This function is on by default.
- **Mirror:** This is to switch to the video's up and bottom limit. This function is disabled by default.
- **Flip:** This is to switch the to video's left and right limit. This function is disabled by default.
- **BLC:** It includes several options: **BLC/WDR/HLC/OFF**.
  - ✧ **BLC:** The device auto exposures according to the environments situation so that the darkest area of the video is cleared

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- ✧ **WDR:** For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time. The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds of recorded video.
- ✧ **HLC:** After you enabled HLC function, the device can lower the brightness of the brightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video.
- ✧ **OFF:** This is to disable the BLC function. Please note this function is disabled by default.

- **Profile:** This is to set the white balance mode. It has an effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night and disable. These are to adjust the video to the best quality.
  - ✧ **Auto:** The auto white balance is on. System can auto compensate the color temperature to make sure the color level is correct.
  - ✧ **Sunny:** The threshold of the white balance is in the sunny mode.
  - ✧ **Night:** The threshold of the white balance is in the night mode.
  - ✧ **Customised:** You can set the the gain of the red/blue channel. The value reneges from 0 to 100.
- **Day/night**: This is to set device color and the B/W mode switch. The default setup is auto.
  - ✧ **Color:** Device outputs the color video.
  - ✧ **Auto:** Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not.)
  - ✧ **B/W:** The device outputs the black and white video.
  - ✧ **Sensor:** This is to set when there is peripheral connected IR light.

Figure 4-13

4.4.4 Channel Name

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From main menu->Setting->Camera-Channel name, you can see an interface shown in Figure 4-14.

This is to modify channel name. It supports a maximum of 31-characters.

Please note you can only modify the channel name of the connected network camera.

Figure 4-14

4.4.5 Upgrade

This is to update the network camera.

From **main menu->setting->camera->remote**, the interface is shown below. See Figure 4-15. Click Browse button and then select the upgrade file. Then select a channel (or you can select device type filter to select several devices at the same time.)

Click Begin button to upgrade. You can see the corresponding dialogue once the upgrade is finish.

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Figure 4-15

4.4.6 UPNP

Important

Do not connect the switch to the PoE port, otherwise the connection may fail!

Please connect the IPC to the PoE port of the device rear panel (Figure 4-16), system can auto connect to the network camera. Please note the following figure is for reference only.

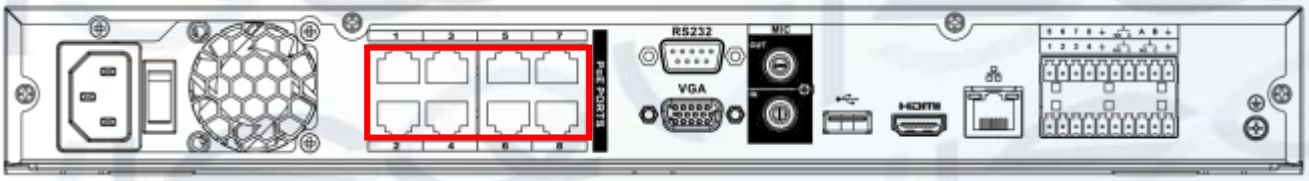

Figure 4-16

4.4.7 Built-in Switch Setup

From **Main menu->Setting->Network->Switch**, you can set the switch IP address, subnet mask, gateway , etc.. See Figure 4-17.

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Figure 4-17

4.5 Preview

After device booted up, the system is in multiple-channel display mode. See Figure 4-18.

Figure 4-18

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4.5.1 Preview

If you want to change system date and time, you can refer to general settings (**Main Menu->Setting->System->General**). If you want to modify the channel name, please refer to the display settings (**Main Menu->Camera->CAM name**).

Please refer to the following sheet for detailed information:

1		Recording status	**3**		Video loss
2		Motion detection	**4**		Camera lock

Tips:

- Preview drag: If you want to change position of channel 1 and channel 2 when you are previewing, you can left click mouse in the channel 1 and then drag to channel 2, release mouse you can switch channel 1 and channel 2 positions.
- Use mouse middle button to control window split: You can use mouse middle button to switch window split amount.

4.5.2 Preview control interface

Move you mouse to the top centre of the video of current channel, you can see system pops up the preview control interface. See Figure 4-19. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

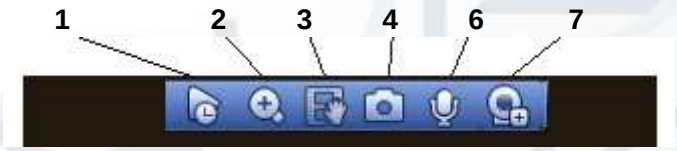

Figure 4-19 Digital Channel

1) Realtime playback

This is to playback the previous 5-60 minutes record of current channel.

Please go to the **Main menu->Setting->->System->General** to set real-time playback time. System may pop up a dialogue box if there is no such record in current channel.

2) Digital zoom

This is to zoom in specified zone of current channel. It supports zoom in function of multiple-channel.

Click button , the button is shown .

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There are two ways for you to zoom in:

1. Drag the mouse to create and select a zone, you can view the interface shown in Figure 4-20.

Figure 4-20

2. Put the middle button at the centre of the zone you want to zoom in, and move the mouse, you can view an interface shown in Figure 4-21.

Figure 4-21

Right click mouse to cancel zoom and go back to the original interface.

3) Manual record function

This is to back up the video of current channel to the USB device. System cannot backup the video coming from multiple-channels at the same time.

Click button , the system will begin recording. Click it again, system stops recoridng. You can find the record file on the flash disk.

4) Manual Snapshot

Click to snapshot 1-5 times. The snapshot file is saved on the USB device or HDD. You can go to the Search interface (chapter 4.8) to view.

5) Bidirectional talk

If the connected front-end device supports bidirectional talk function, you can click this button.

Click button to start bidirectional talk function the icon now is shown . Now the rest of the bidirectional talk buttons of digital channel becomes null too.

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Click again, you can cancel bidirectional talk and the bidirectional talk buttons of other digital channels become as .

6) Remote device

Click it to go to the remote device interface to add/delete remote device or view its corresponding information. Please refer to chapter 4.4.2 for detailed information.

4.5.3 Right Click Menu

After you logged in the device, right click mouse, you can see the short cut menu. Please see Figure 4-22.

- Window split mode: You can select window amount and then select channels.
- PTZ: Click it to go to PTZ interface.
- Auto focus: This is to set auto focus function. Please make sure the connected network camera supports this function.
- Color setting: Set video corresponding information.
- Search: Click it to go to Search interface to search and playback a record file.
- Record control: Enable/disable record channel.
- Alarm output: This is to set alarm output mode.
- Remote device: Search and add a remote device.
- Alarm output: Generate alarm output signal manually.
- Main menu: Go to system main menu interface.

Tip: Right click mouse to go back to the previous interface.

Figure 4-22

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4.5.4 Preview Display Effect Setup

4.5.4.1 Video Color

Here you can set the hue, brightness, contrast, saturation, gain, white level, color mode , etc.. See Figure 4-23.

Figure 4-23

Please refer to the following sheet for detailed information:

Item	Note
Period	There are two periods in one day. You can set the different sharpness, brightness, and contrast setup for different periods.
Effective Time	Check the box here to enable this function and then set period time.
Sharpness	The value here is to adjust the edge of the video. The value ranges from 0 to 100. The larger the value is, the clear the edge is and vice versa. Please note there is noise if the value here is too high. The default value is 50 and the recommended value ranges from 40 to 60.
Brightness	This is to adjust monitor window bright. The value ranges from 0 to 100. The default value is 50. The larger the number, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The

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Item	Note
	recommended value ranges from 40 to 60.
Contrast	This is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation	This is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be at the best quality if the value is too low. The recommended value ranges from 40 to 60.
Gain	The gain adjust is to set the gain value. The default value may vary due to different device models. The smaller the value, the lower the noise. But the brightness can also be too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear.
Color mode	It includes several modes such as standard, color, bright, gentle. Select a color mode, the sharpness, brightness, contrast, etc.. This can automatically switch to corresponding setup.

4.5.4.2 Display

From **Main Menu->Setting->System->Display**, you can go to the following interface. See Figure 4-24.

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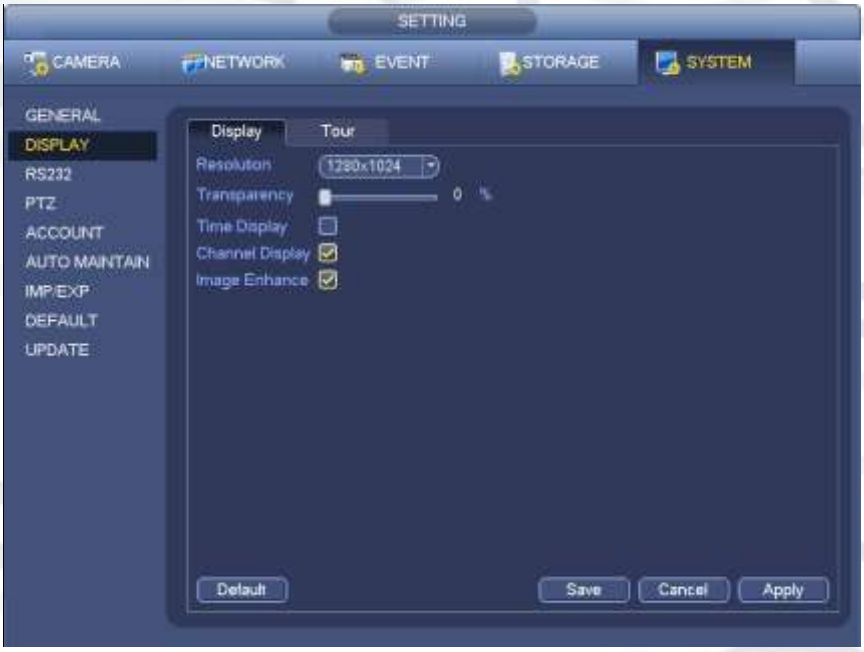

Figure 4-24

Now you can set the corresponding information.

- **Transparency**: This is for you to adjust transparency. The value ranges from 128 to 255.
- **Channel name**: This is for you to modify channel name. System max support 25-digit (The value may vary due to different series). Please note all your modification here only applies to NVR local end. You need to open web or client end to refresh channel name.
- **Time display**: You can select to display time or not when system is playback.
- **Channel display**: You can select to channel name or not when system is playback.
- **Resolution**: There are four options: 1280×1024 (Default), 1280×720, 1920×1080, 1024×768. Please note the system needs to reboot to activate current setup.
- **Image enhance**: Check the box; you can optimise the margin of the preview video.

Click OK button to save current setup.

Note

The display parameter here has no effect on the record file and playback effect.

4.5.5 Preview Parameter

Set preview display mode, channel display sequence and tour setup.

- Set preview display mode: On the preview interface, right click mouse, you can view right-click menu. Now you can select preview window amount and channel.
- Set channel display mode: On the preview interface, if you want to change channel 1 and channel 16 position, please right click channel 1 video window and then drag to the channel 16 video window, release button, you can change channel 1 and channel 16 position.
- Tour setup: Here you can set the preview window channel display mode and interval. Please follow the steps listed below.

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From **Main menu->Setting->System->Display**, you can see an interface shown in Figure 4-25. Here you can set the tour parameter.

- **Enable tour:** Check the box here to enable tour function.
- **Interval:** Input proper interval value here. The value ranges from 1-120 seconds.
- **Monitor tour type**: System support 1/8-window tour.
- **Alarm tour type**: System support 1/8-window tour.

Figure 4-25

Tips

On the navigation bar, click / to enable/disable tour. Click Save button to save current setup.

4.6 PTZ

Note:

Before you control the PTZ, please make sure the PTZ decoder and the NVR network connection is OK and the corresponding settings are right.

4.6.1 PTZ Settings

Cable Connection

Please follow the procedures below to go on cable connection:

1. Connect the dome RS485 port to NVR RS485 port.
2. Connect dome video output cable to NVR video input port.
3. Connect power adapter to the dome.

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In the main menu, from **Setting->System->PTZ**, you can see an interface is shown in Figure 4-26. Here you can set the the following items:

- **Channel**: Select the current camera channel.
- **PTZ type:** There are two types: local/remote. Please select local mode if you are connect RS485 cable to connect to the Speed dome (PTZ). Please select remote mode if you are connecting to the network PTZ camera.
- **Protocol:** Select corresponding PTZ protocol(such as PELCOD)
- **Address:** Default address is 1.
- **Baud rate:** Select corresponding baud rate. Default value is 9600.
- **Data bit:** Select corresponding data bits. Default value is 8.
- **Stop bit:** Select corresponding stop bits. Default value is 1.
- **Parity:** There are three options: odd/even/none. Default setup is none.

Figure 4-26

If you are connecting to network PTZ, the PTZ type shall be remote. See Figure 4-27.

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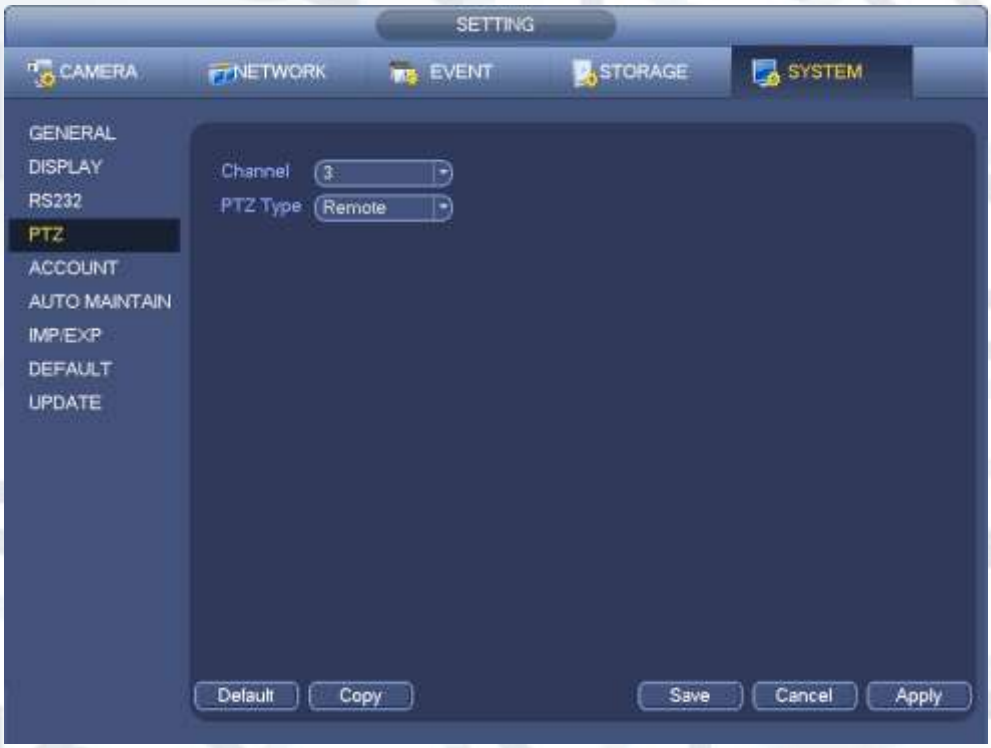

Figure 4-27

4.6.2 PTZ Control

After completing all the settings please click save button. Right click mouse (click “Fn” Button in the front panel or click “Fn” key in the remote control). The interface is shown in Figure 4-28. Please note you can only go to the PTZ control interface when you are in 1-window display mode.

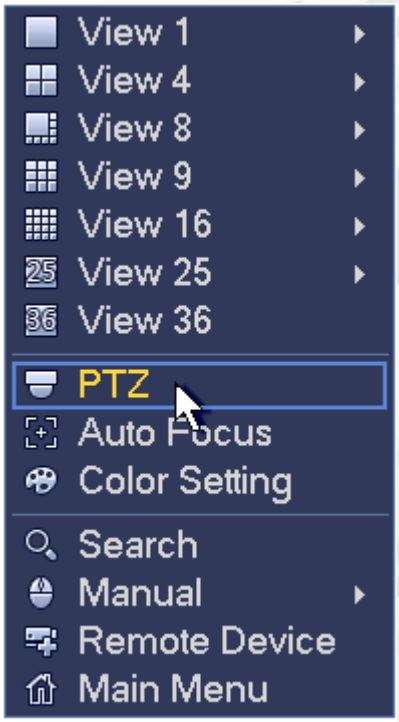

Figure 4-28

The PTZ setup is shown in See Figure 4-29.

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Please note the commend name is grey once device does not support this function.

The PTZ operation is only valid in one-window mode.

Here you can control PTZ direction, speed, zoom, focus, iris, preset, tour, scan, pattern aux function, light and wiper, rotation, etc..

Speed is to control PTZ movement speed. The value ranges from 1 to 8.The speed 8 is faster than speed 1. You can use the remote control to click the small keyboard to set.

You can click and to zoom to go in/out, to raise or lower focus definition and to open and close the iris to control the image brightness.

The PTZ rotation supports 8 directions. If you are using direction buttons on the front panel, there are only four directions: up/down/left/right.

Figure 4-29

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 4-30. Please make sure your protocol supports this function and you need to use mouse to control.

Click this key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. The dragged zone supports 4X to 16X speeds. It can recognise the PTZ automatically. The smaller the zone you have dragged, the higher the speed.

Figure 4-30

Name	Function key	function	Shortcut key	Function key	function	Shortcut key
Zoom		Near			Far	
Focus		Near	|		Far	►|

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Iris		close	II ◀		Open	▶ II

In Figure 4-29, click to open the menu, you can set the preset, tour, pattern, scan, etc.. See Figure 4-31.

Figure 4-31

Please refer to the following sheet for detailed information.

Right click mouse or click the ESC button at the front panel to go back to the Figure 4-29.

Icon	Function	Icon	Function
	Preset		Flip
	Tour		Reset
	Pattern		Aux
	Scan		Aux on-off button
	Rotate		Go to menu

4.6.2.1 PTZ Function Setup

Click , and you can go to the following interface to set preset, tour, pattern, and scan. See Figure 4-32.

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Figure 4-32

Preset Setup

1. In Figure 4-32, click preset button and use eight direction arrows to adjust camera to the proper position. The interface is shown in Figure 4-33.

2. Click Set button and then input preset number.

3. Click Set button to save current preset.

Figure 4-33

Tour Setup

In Figure 4-32, click tour button.

Input tour value and preset number. Click Add preset button to add current preset to the tour. See Figure 4-34.

Tip:

Repeat the above steps to add more presets to the tour. Click Del preset button to remove it from the tour. Please note some protocols do not support delete preset function.

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Figure 4-34

Pattern Setup

In Figure 4-32, click Pattern button and input pattern number.

Click Begin button to start direction operation. Or you can go back to Figure 4-29 to operate zoom/focus/iris/direction operation.

In Figure 4-32, click End button.

Figure 4-35

Scan Setup

In Figure 4-32, click Scan button.

Use direction buttons to set camera left limit and then click Left button.

Use direction buttons to set camera right limit and then click Right button. Now the scan setup process is complete.

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Figure 4-36

4.6.2.2 Call PTZ Function

Call Preset

In Figure 4-31, input preset value and then click to call a preset. Click again to stop call.

Call Pattern

In Figure 4-31, input pattern value and then click to call a pattern. Click again to stop call.

Call Tour

In Figure 4-31, input tour value and then click to call a tour. Click again to stop call.

Call Scan

In Figure 4-31, input Scan value and then click to call a tour. Click again to stop call.

Rotate

In Figure 4-31, click to enable the camera to rotate.

System supports preset, tour, pattern, scan, rotate and light functions.

Notes:

- Preset, tour and pattern all need the value to be the control parameters. You can define it as you require.
- You need to refer to your camera user's manual for Aux definition. In some cases, it can be used for special process.

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Aux

Click , system goes to the following interface. The options here are defined by the protocol.

The aux number is corresponding to the aux on-off button of the decoder. See Figure 4-37.

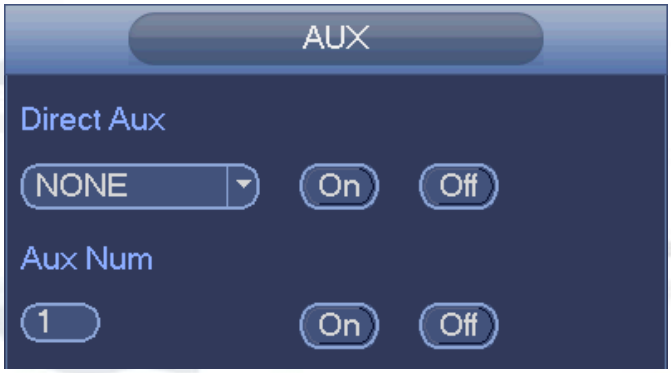

Figure 4-37

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4.7 Record and Snapshot

The record/snapshot priority is: **Alarm->Motion detect->Schedule.**

4.7.1 Encode

4.7.1.1 Encode

Encode setting is to set IPC encode mode, resolution, bit stream type, etc..

From **Main menu->Setting->System->Encode**, you can see the following interface. See Figure 4-38.

- **Channel**: Select the channel you want.
- **Type**: Please select from the dropdown list. There are three options: regular/motion detect/alarm. You can set the the various encode parameters for different record types.
- **Compression:** System supports H.264, MPEG4, MJPEG, etc..
- **Resolution:** The mainstream resolution type is IPC's encoding config. Generally there is D1/720P/1080P.
- **Frame rate**: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- **Bit rate type**: System supports two types: CBR and VBR. In VBR mode, you can set the video quality.
- **Quality:** There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- **Video/audio**: You can enable or disable the video/audio. Please note, once you enable audio function for one channel, system may enable audio function of the rest channels by default.
- **Copy**：After you complete the setup, you can click Copy button to copy current setup to other channel(s). You can see an interface is shown in Figure 4-41. You can see current channel number is grey. Please check the number to select the channel or you can check the box ALL. Please click the OK button in Figure 4-41 and Figure 4-39 respectively to complete the setup. Please note, once you check the 'All' box, you set same encode setup for all channels. Audio/video enable box overlay button and the copy button is shield.

Please highlight icon to select the corresponding function.

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Figure 4-38

4.7.1.2 Overlay

Click overlay button, you can see an interface is shown in Figure 4-39.

- **Cover area**: This is for you to cover area section. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel. You can set the with Fn button or direction buttons.
- **Preview/monitor:** The cover area has two types. Preview and Monitor. Preview means the privacy mask zone cannot be viewed by user when system is in preview status. Monitor means the privacy mask zone cannot be view by the user when system is in monitor status.
- **Time display:** You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
- **Channel display:** You can select system displays channel number or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.

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Figure 4-39

4.7.1.3 Snapshot

Here you can set the snapshot mode, picture size, quality and frequency. See Figure 4-40.

- **Snapshot mode:** There are two modes: regular and trigger. If you set regular mode, you need to set snapshot frequency. If you set trigger snapshot, you need to set snapshot activation operation.
- **Image size:** Here you can set the snapshot picture size.
- **Image quality:** Here you can set the snapshot quality. The value ranges from 1 to 6.
- **Interval:** This is for you to set timing (schedule) snapshot interval.

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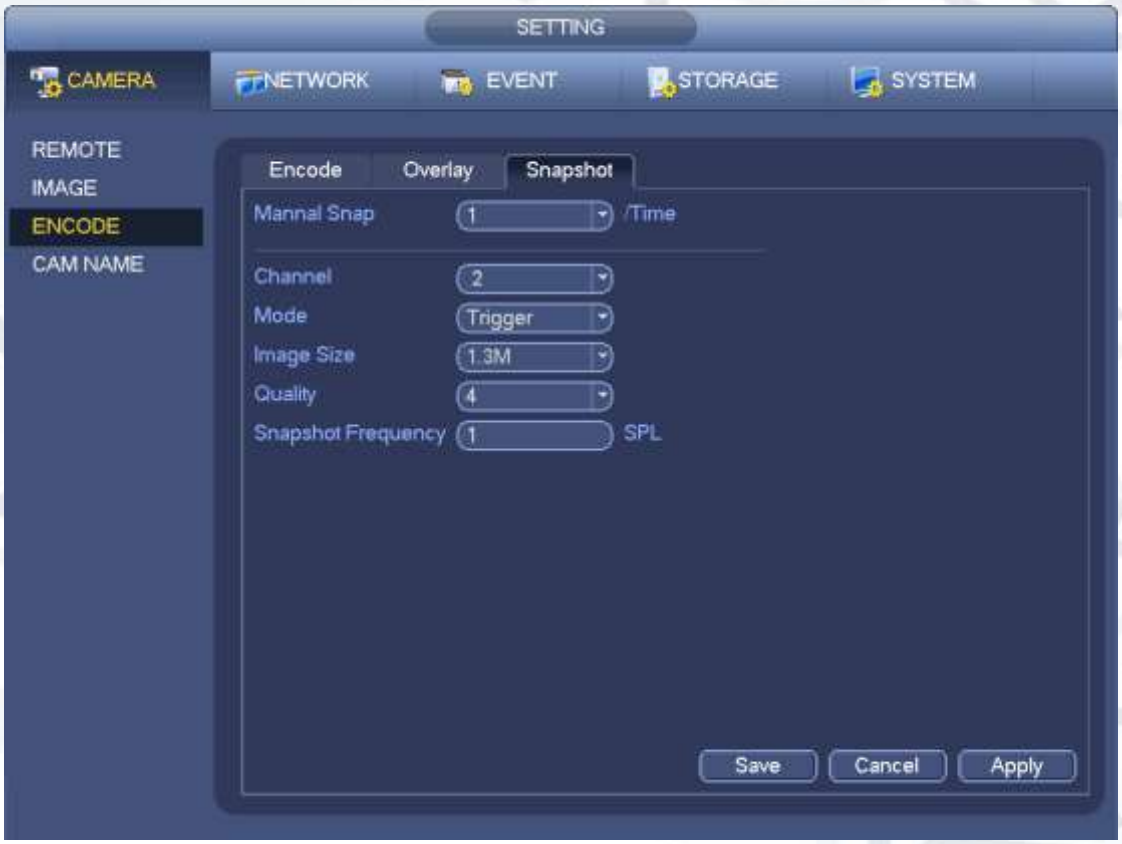

Figure 4-40

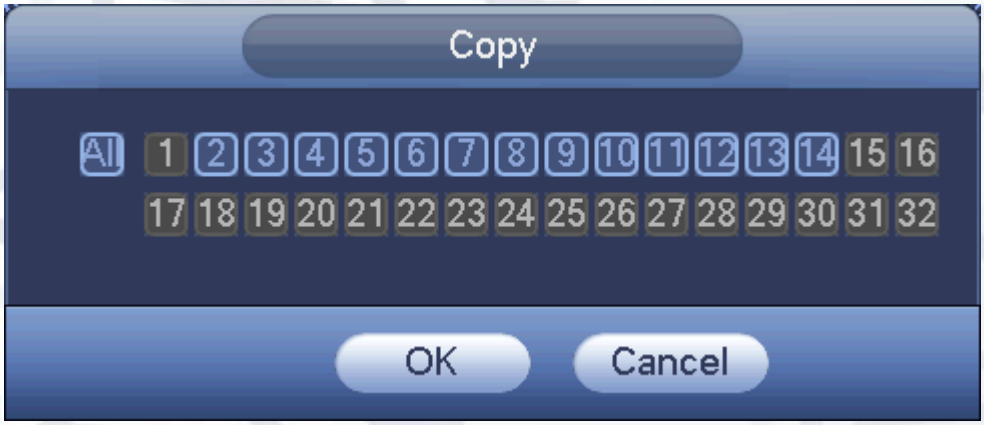

Figure 4-41

4.7.2 Schedule

The record type priority is: Alarm>Motion detect>Regular.

4.7.2.1 Schedule Record

Set record time, record plan, etc.. Please note system is in 24-hour record by default after its first boot up.

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In the main menu, from **Main menu->Setting->Storage->Schedule**, you can go to schedule menu. See Figure 4-45. There are total six periods.

1. **Channel:** Please select the channel number first. You can select “all” if you want to set for the whole channels.
2. : Sync connection icon. Select icon of several dates, all checked items can be edited or together. Now the icon is shown .
3. : Click it to delete a record type from one period.
4. **Record Type**: Please check the box to select corresponding record type. There are four types: Regular/MD (motion detect)/Alarm/MD & Alarm).
5. **Week day:** There are eight options: ranges from Saturday to Sunday and all.
6. **Holiday**: This is to set holiday setup. Please note you need to go to the General interface (**Main Menu->Setting->System->General**) to add holiday first. Otherwise you cannot see this item.
7. **Pre-record**: System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.
8. **Redundancy**: System supports redundancy backup function. It allows you to backup recorded file in two disks. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (**Main menu->Setting->Storage->HDD Manager**). **Please note this function is null if there is only one HDD.**
9. **ANR**: This is to save video to the SD card of the network camera in case the network connection fails. The value ranges from 0s～43200s. After the network connection resumed, the system can get the video from the SD card and there is no risk of record loss.
10. **Period setup**: Click button after one date or a holiday, you can see an interface shown in Figure 4-46.There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

Please following the steps listed below to draw the period manually.

a) Select a channel you want to set. See Figure 4-42.

Figure 4-42

b) Set record type. See Figure 4-43.

Figure 4-43

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c) Please draw manually to set record period. There are six periods in one day. See Figure 4-44.

Figure 4-44

Please check the box ☐ to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

There are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.

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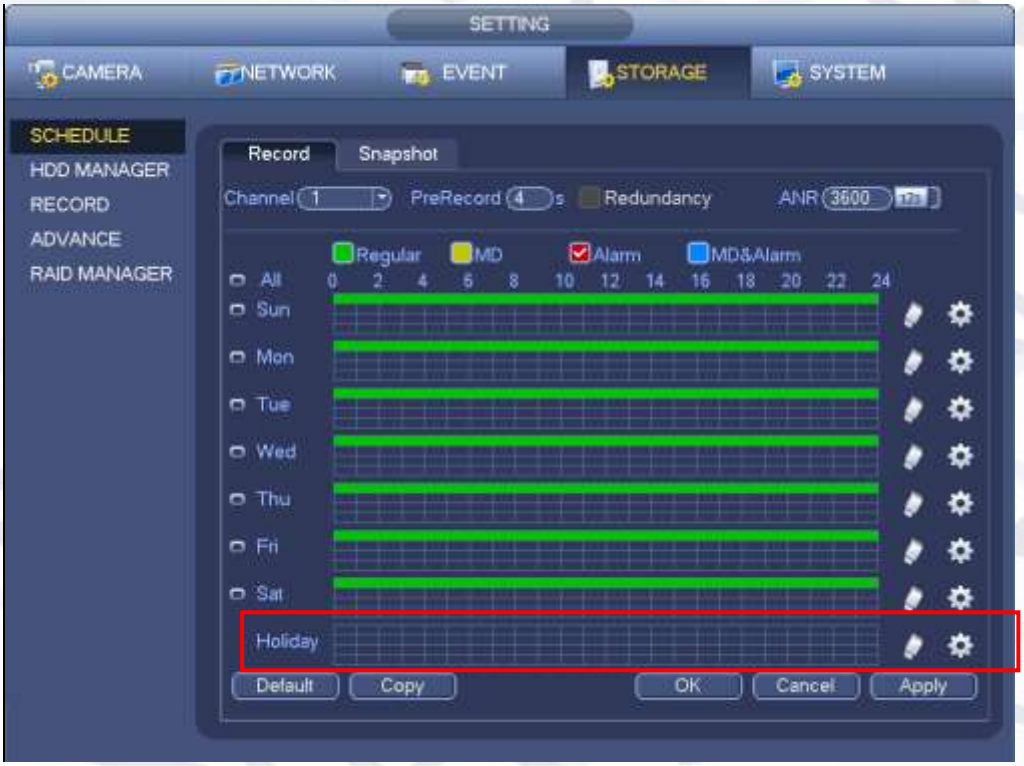

Figure 4-45

Figure 4-46

Quick Setup

The Copy function allows you to copy one channel setup to another. After setting in channel 1, click Copy button, you can go to interface Figure 4-47. You can see current channel name is grey such as channel 1. Now you can select the channel you want to paste such as channel 5/6/7. If you want to save current setup of channel 1 to all channels, you can click the first box “ALL”. Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

Please note, if you select ALL in Figure 4-47, the record setup of all channels are the same and the Copy button becomes hidden.

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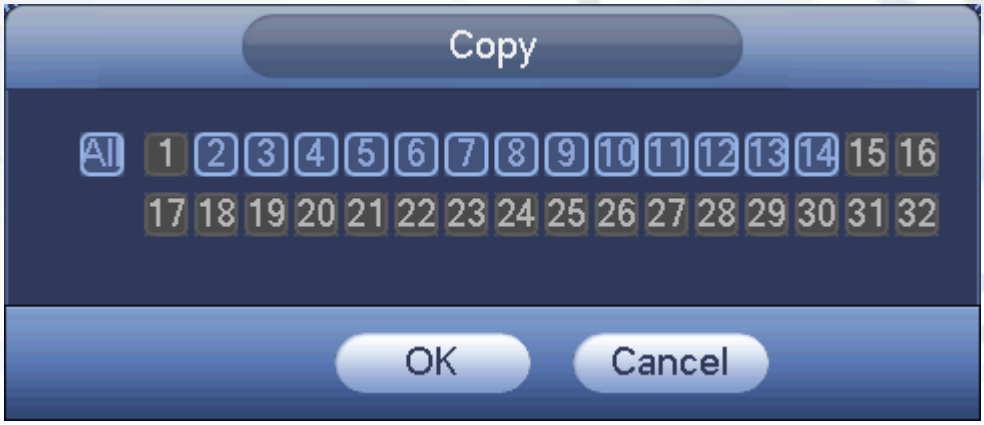

Figure 4-47

Click OK button to save current setup.

4.7.2.2 Schedule Snapshot

From **Main menu->Setting->Storage->Record** or on the preview interface, right click mouse and then select record item, you can see Figure 4-48.

Select snapshot channel and enable snapshot function. Then click the Save button.

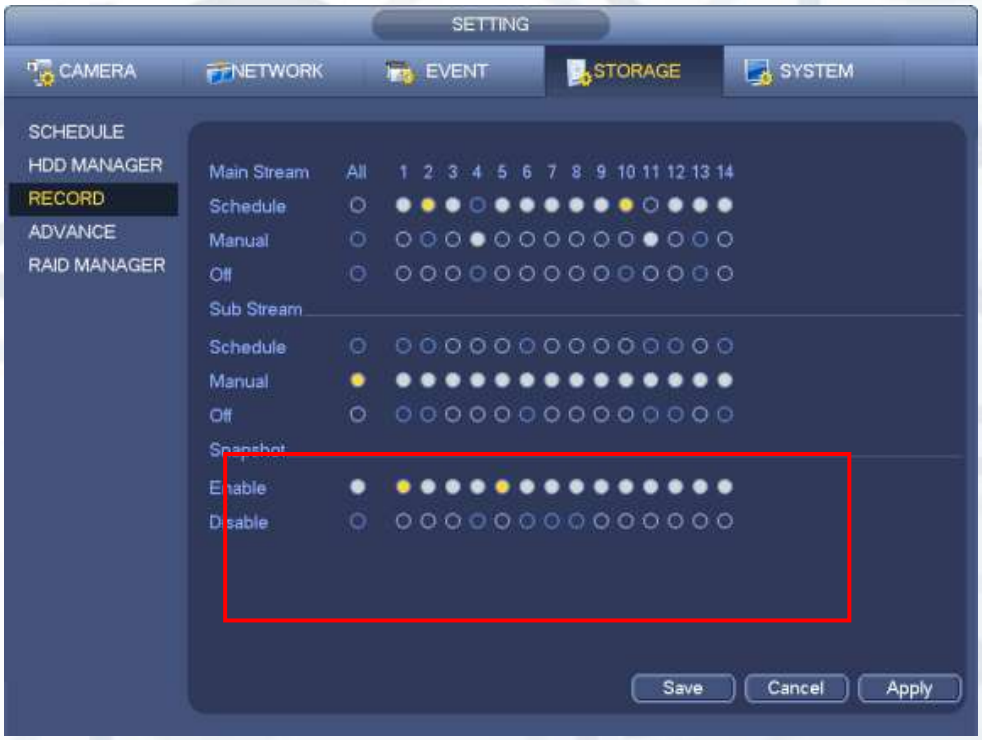

Figure 4-48

From **Main menu->Setting->Camera->Encode->Snapshot**, you can go to snapshot interface. See Figure 4-49.

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Select the snapshot channel from the dropdown list and then select snapshot mode as Timing (Schedule) from the dropdown list and then set picture size, quality and snapshot frequency.

Figure 4-49

In the main menu, from **Main menu->Setting->Storage->Schedule**, you can go to schedule menu. See Figure 4-45. Here you can set the snapshot period. There are total six periods in one day. Please refer to chapter 4.7.2.1 for detailed setup information. The setup steps are general the same.

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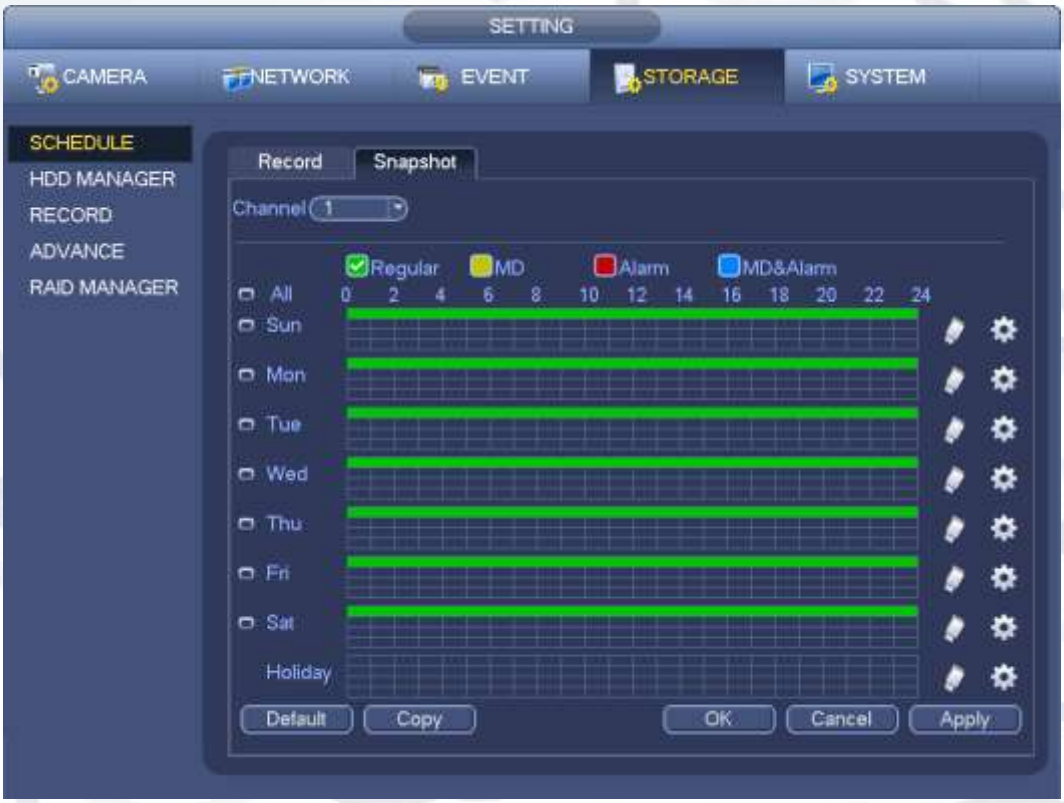

Figure 4-50

Note

- Please note the trigger snapshot has the higher priority than regular snapshot. If you have enabled these two types at the same time, system can activate the trigger snapshot when an alarm occurs, and otherwise system just operates the regular snapshot.
- Only the trigger snapshot supports this function. The regular snapshot function cannot send out picture via the email. But you can upload the picture to a FTP.

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4.7.3 Motion detect record/snapshot

4.7.3.1 Motion detect record

a) From **Main menu->Setting->Event->Detect**, you can go to the following interface. See Figure 4-51.

Figure 4-51

b) Select motion detect from the event type dropdown list. Select a channel from the dropdown list and then check the enable button to enable motion detect function.

c) Click Region Select button to set motion detect zone. There are 396(PAL)/330(NTSC) small zones. The green zone is current cursor position. Grey zone is the motion detection zone. Black zone is the disarmed zone. You can click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember to click the save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.

d) Period: Click set button, you can see an interface is shown in Figure 4-74. Here you can set the motion detect period. System only enables motion detect operation in the specified periods. This is not for video loss or the tampering. There are two ways for you to set periods. Please note system only supports 6 periods in one day.

✧ In Figure 4-74, Select icon of several dates, all checked items can be edited together.

Now the icon is shown . Click to delete a record type from one period.

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✧ In Figure 4-74. Click button after one date or a holiday, you can see an interface shown in Figure 4-75. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

e) Set sensitivity. Please note the sixth level has the highest sensitivity.
f) Click Save button to complete motion detect setup.
g) From **Main menu->Setting->Storage->-Schedule**. See Figure 4-45
h) Set motion detect record channel, period and the record type shall be motion detect (MD). Please refer to chapter 4.7.2.
i) Click Copy button to copy current setup to other channel(s).
j) Click OK button to complete motion detect record setup.

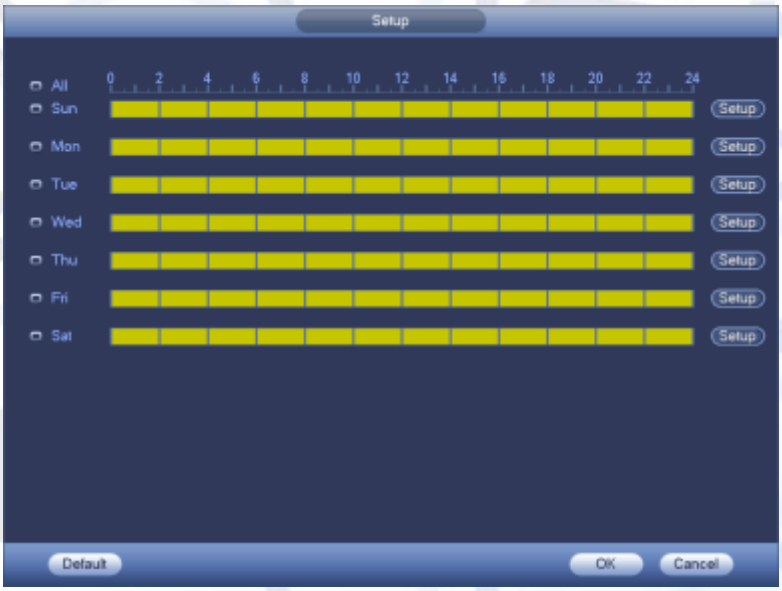

Figure 4-52

Figure 4-53

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4.7.3.2 Motion Detect Snapshot

a) From **Main menu->Setting->Camera->Encode->Snapshot**, you can go to snapshot interface. See Figure 4-54.
b) In Figure 4-54, select trigger snapshot from the dropdown list and then set picture size, quality and snapshot frequency. Click OK button to save current setup.
c) From **Main menu->Setting->Event->Detect**, here you can select motion detect type, motion detect channel and then check the enable box. Please refer to chapter 4.7.3.1.
d) Click OK button to complete motion detect setup.

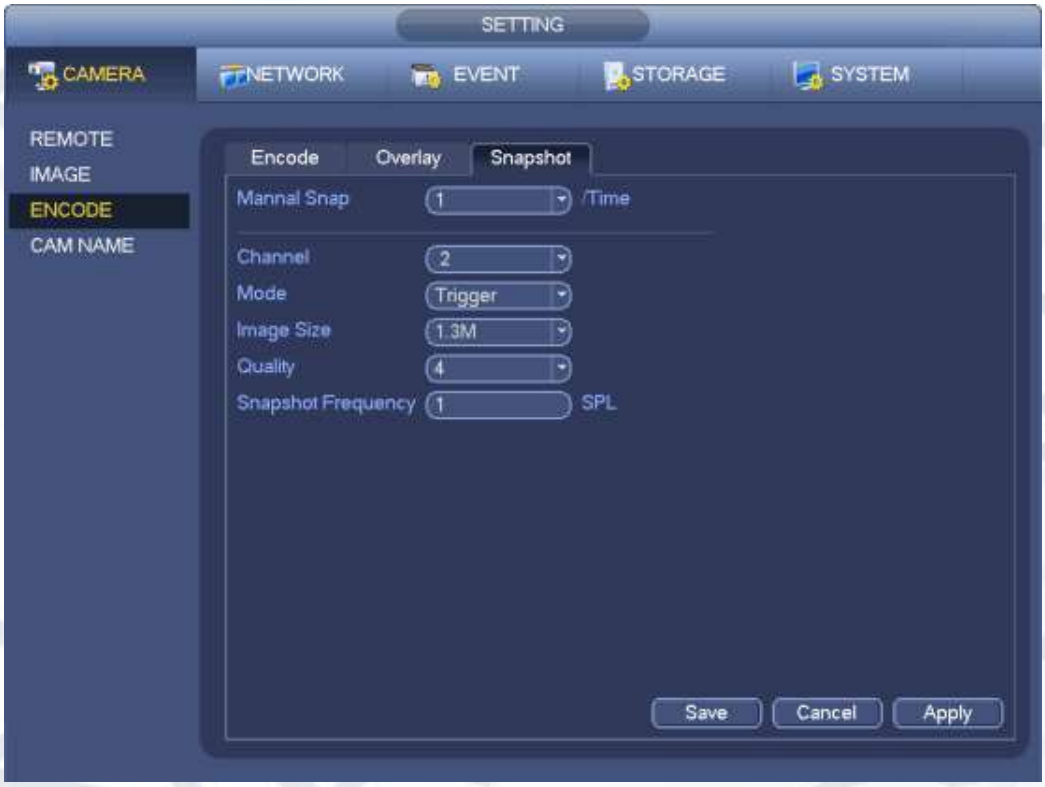

Figure 4-54

4.7.4 Alarm Record/Snapshot

4.7.4.1 Alarm Record

a) Before you set alarm setup information, please go to chapter **Error! Reference source not found.** to connect alarm input and alarm output cable (such as light, siren , etc.).
b) The record priority is: **Alarm>Motion detect>Regular**.

In the main menu, from **Setting->Event-> Alarm**, you can see alarm setup interface. See Figure 4-55.

1. **Alarm in**: This is for you to select channel number.
2. **Event type**: There are four types. Local input/network input/IPC external/IPC offline alarm.

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a. **Local input alarm**: The alarm signal system detects from the alarm input port.
b. **Network input alarm**: This is the alarm signal from the network.
c. **IPC external alarm**: This is the on-off alarm signal from the front-end device and can activate the local NVR.
d. **IPC offline alarm**: Once you select this item, system can generate an alarm when the front-end IPC disconnects with the local NVR. The alarm can activate record, PTZ, snapshot, etc.. The alarm can last until the IPC and the NVR connection resumes.

3. **Enable**: Please you need to highlight this button to enable current function.
4. **Type**: normal open or normal close.
5. Click Save button to complete alarm setup interface.
6.

7. Figure 4-55

8. From **Main menu->Setting->Storage->Schedule**, you can go to Figure 4-45.
9. Select alarm channel, period and the record type shall be alarm. Please refer to chapter 4.7.2.
10. Click Copy button to copy current setup to other channel(s).
11. Click OK button to save alarm record information.

4.7.4.2 Alarm Snapshot

a) Please refer to Step a) to step c) of chapter 4.7.3.2 to enable timing snapshot.
b) From **Main menu->Setting->Storage->schedule**, you can go to Figure 4-56 to enable snapshot function.

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c) From **Main menu->Setting->Event->Alarm**, you can go to Figure 4-55 to set alarm parameter and enable snapshot function.

d) Click Save button to save alarm snapshot setup.

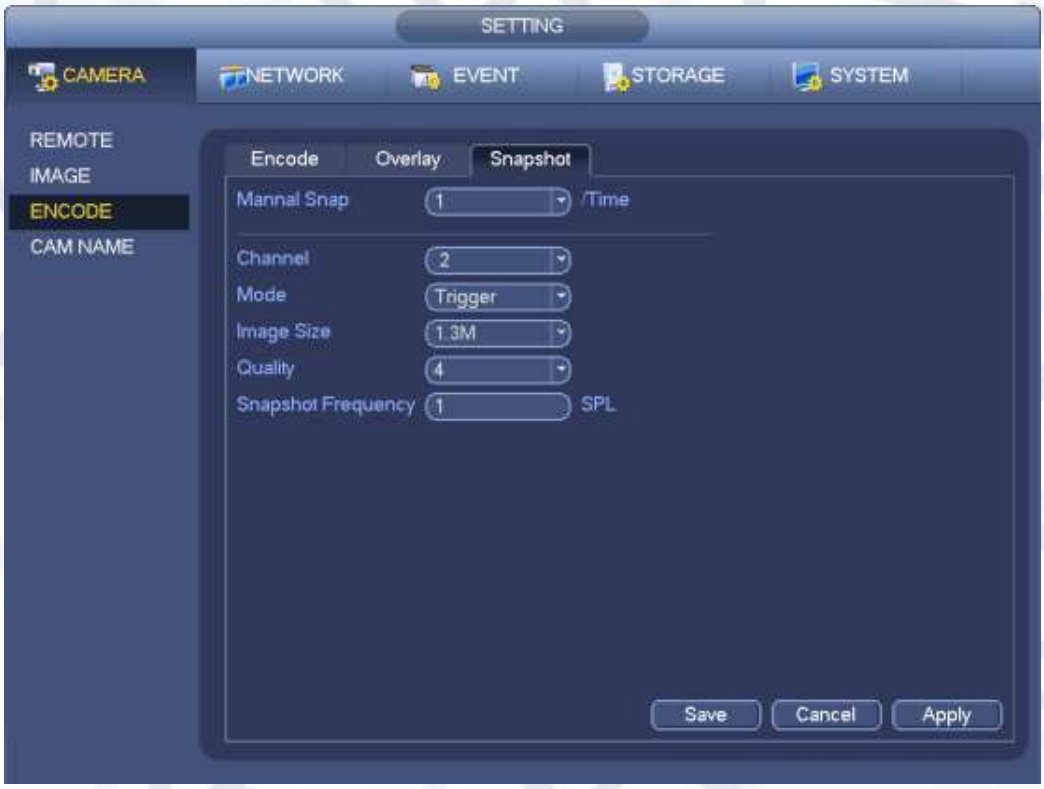

Figure 4-56

4.7.5 Manual Record/Snapshot

You need to have proper rights to implement the following operations. Please make sure the HDD has been properly installed.

4.7.5.1 Manual Record

a) Right click mouse and select manual record or in the main menu, from Setting->Storage->Manual Record. Manual record menu is shown in Figure 4-57.

Tip: You can click Rec button on the front panel (if possible) to go to the Manual Record interface.

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Figure 4-57

b) Check the box here to select manual record channel(s). You can see the corresponding indicator light on the front panel is on.

- **Channel**: This is to display the device all channels.
- **Manual**: This has the highest priority. Enable corresponding channel to record no matter what period applied in the record setup. Now system is record general file.
- **Auto**: System enables auto record function as you set in chapter 4.7.2 schedule interface (General/Motion detect/Alarm)
- **Stop**: Stop current channel record/Snapshot no matter what period applied in the record setup.
- **All**: Check the All box to select all channels.

c) Click OK button to complete manual record setup.

4.7.5.2 Manual Snapshot

Click button at the preview control bar, you can snapshot 1-5 picture(s). From **main menu->Setting->Camera->Encode->Snapshot**, you can set the snapshot times. You can go to chapter 4.8 to view snapshot picture.

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4.7.6 Holiday Record/Snapshot

This is for you to set holiday record or snapshot plan. Please note the holiday record/snapshot setup has the higher priority than the ordinary date record/snapshot setup.

4.7.6.1 Holiday Record

a) From **Main menu->Setting->System->General**, you can go to the following interface. See Figure 4-58.

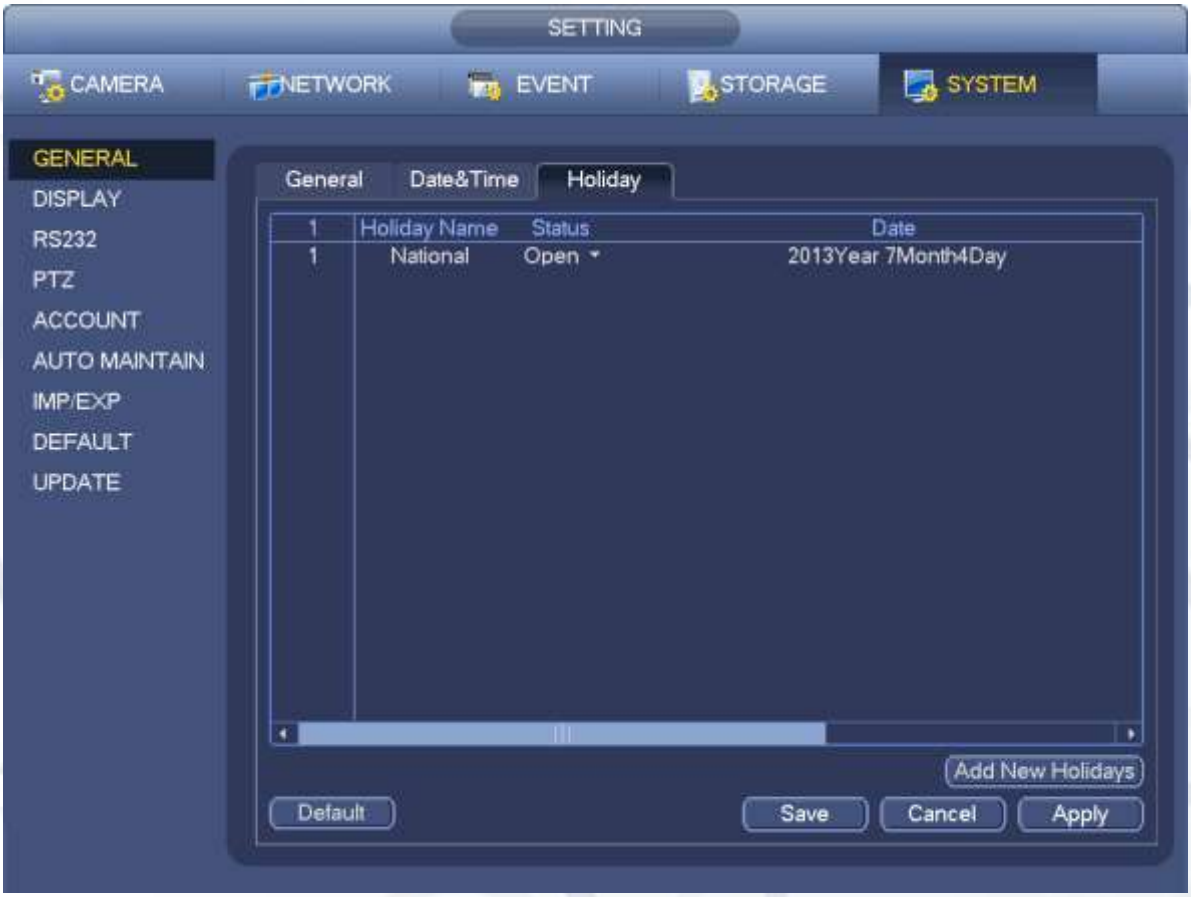

Figure 4-58

b) Click the Add new holiday button, you can see an interface shown in Figure 4-59. Here you can set the holiday date name, repeat mode, start time/end time, etc..

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Figure 4-59

c) Click Add button to complete holiday setup. Now you can enable holiday setup and then click Apply button.

d) From **Main menu->setting->Storage->schedule**, you can go to the schedule interface. See Figure 4-60. Now you can set the period and record type of holiday time. Please refer to chapter 4.7.2.1 for detailed setup information.

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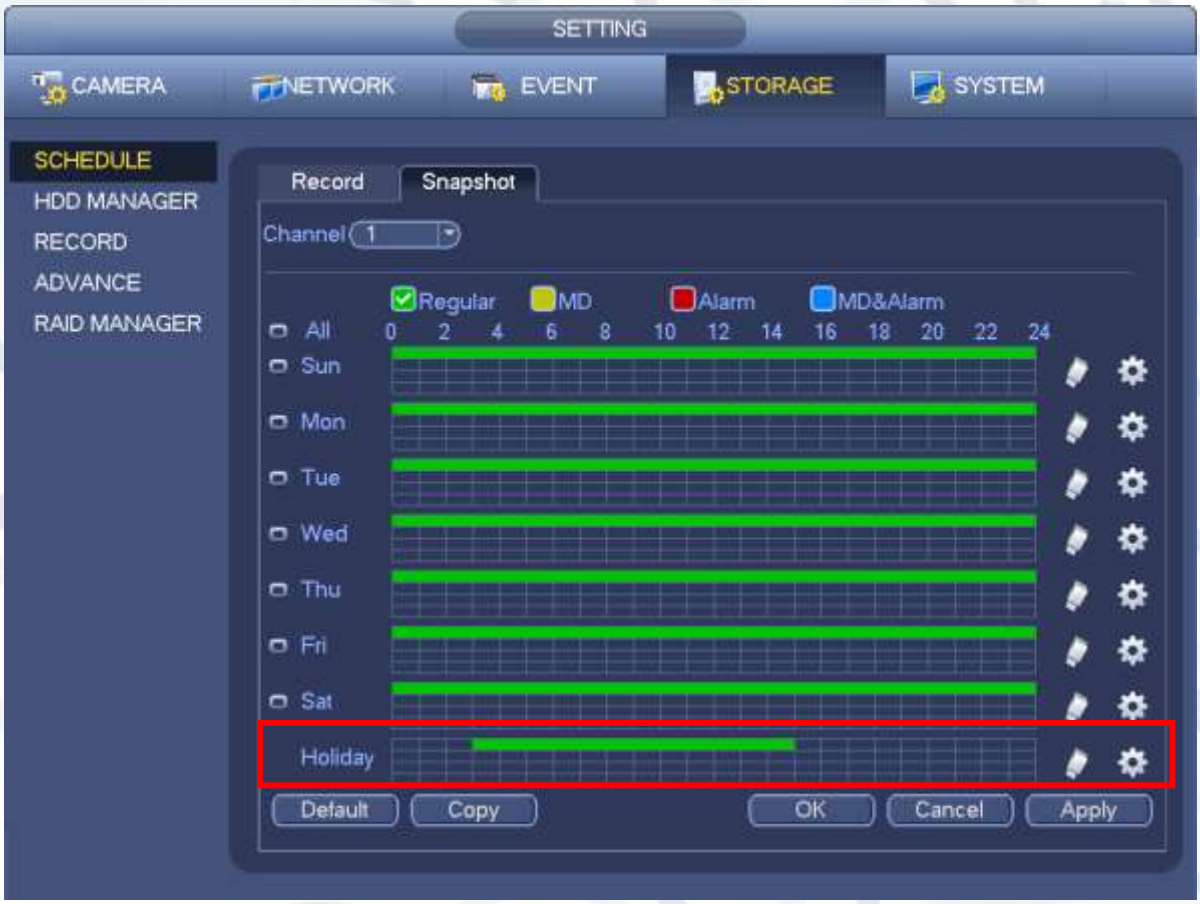

Figure 4-60

e) Click OK button to set holiday record setup.

4.7.6.2 Holiday Snapshot

Set Holiday date first. Please refer to step a) to step c) of chapter 4.7.6.1.

From **Main menu->Setting->Storage->Schedule**, you can go to schedule interface. See Figure 4-60. Click Holiday item to set snapshot period.

Set holiday snapshot type (Trigger/Regular). Please refer to chapter 4.7.2.2 or chapter 4.7.3.2.

4.7.7 Other Record/Snapshot

For Motion Detect & Alarm record or snapshot, please refer to chapter 4.7.4.

Video loss or tampering record or snapshot function, please refer to chapter 4.7.3.

4.8 Playback and Search

4.8.1 Real-time Playback

Please refer to chapter 4.5.2 for real-time playback information.

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4.8.2 Search Interface

From **Main menu->Search**, or on the preview interface, right click mouse and then select search item, you can go to the following interface. See Figure 4-61.

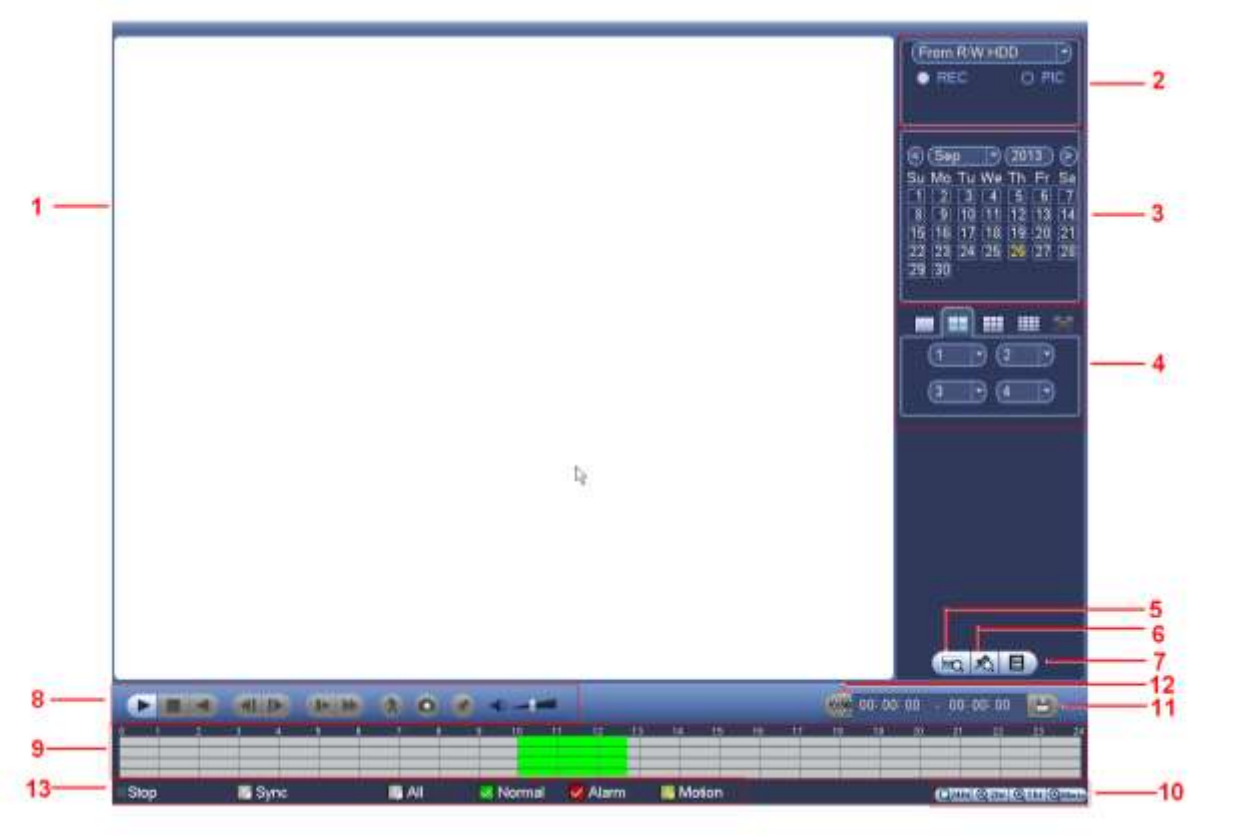

Figure 4-61

Please refer to the following sheet for more information:

SN	Name	Function
1	Display window	• This displays the searched picture or file. • Support 1/4/9/16-window playback.
2	Search type	• Here you can select to search the picture or the recorded file. • You can select to play from the read-write HDD, from peripheral device or from redundancy HDD. • Before you select to play from the peripheral device, please connect the corresponding peripheral device. You can view all record files of the root directory of the peripheral device. Click the Browse button; you can select the file you want to play. **Important** • **Redundancy HDD does not support picture backup function, but it supports picture playback function. You can select to play from redundancy HDD if there are pictures on the redundancy HDD.**
3	Calendar	• The blue highlighted date means there is a picture or file. Otherwise, there is no picture or file.

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		• In any play mode, click the date you want to see, you can see the corresponding recorded file trace along in the time bar.	
4	Playback mode and channel selection pane.	• Playback mode：1/4/9/16. (It may vary due to different series.) ✧ In 1-window playback mode: you can select 1-X channels (X depends on the product channel amount). ✧ In 4-window playback mode: you can select 4 channels according to your requirement. ✧ In 9-window playback mode, you can switch between 1-8, 9-16 , etc. channels. ✧ In 16-window playback mode, you can switch between1-16, 17-32 , etc. channels. • The time bar will change once you modify the playback mode or the channel option.	
5	Card number search	The card number search interface is shown below. Here you can view card number/field setup bar. You can implement advanced search. 	
6	Mark file list button	Click this to go to mark file list interface. You can view all mark information of current channel by time. Please refer to chapter 4.8.2.3 for detailed information.	
7	File list switch button	• Double click it; you can view the picture/record file list of current day. • The file list is to display the first channel of the record file. • The system can display max 128 files in one time. Use the ◀| and |▶ or the mouse to view the file. Select one item, and then double click the mouse or click the ENTER button to playback. • You can input the period in the following interface to begin accurate search. • File type：R—regular record； A—external alarm record；M—Motion detect record. • Lock file. Click the file you want to lock and click the button to lock. The file you locked will not be overwritten. • Search locked file: Click the button to view the locked file.	
8	Playback control pane.	►/ II	Play/Pause There are three ways for you to begin playback. ● The play button ● Double click the valid period of the time bar. ● Double click the item in the file list. In slow play mode, click it to switch between play/pause.
		■	Stop
		◀	• Backward play • In normal play mode, left click the button, the file begins backward play. Click it again to pause the current play. • In backward play mode, click ►/ II to restore normal play.

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		⏮/⏭	• In playback mode, click it to play the next or the previous section. You can click continuously when you are watching the files from the same channel. • In normal play mode, when you pause the current play, you can click ◀⏮ and ⏭▶ to begin frame by frame playback. • In frame by frame playback mode, click ▶/⏸ to restore normal playback.
			Slow play In playback mode, click it to cycle through various slow play modes such as slow play 1, slow play 2, etc..
			Fast forward In playback mode, click to cycle through various fast play modes such as fast play 1,fast play 2 , etc..
			Smart search
			The volume of the playback
			• Click the snapshot button in the full-screen mode, the system can snapshot 1 picture. • System supports custom snap picture saved path. Please connect the peripheral device first, click snap button on the full-screen mode, you can select or create path. Click Start button, the snapshot picture can be saved to the specified path.
			• Mark button. • Please note this function is for some series product only. Please make sure there is a mark button in the playback control pane. • You can refer to chapter 4.8.2.3 for detailed information.
9	Time bar		• This is to display the record type and its period in current search criteria. • In 4-window playback mode, there are corresponding four time bars. In other playback mode, there is only one time bar. • Use the mouse to click one point of the color zone in the time bar, system begins playback. • The time bar is begins with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file. • The green color stands for the regular record file. The red color stands for the external alarm record file. The yellow stands for the motion detect record file.
10	Time bar unit		• The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the zoom rate. You can accurately set the time in the time bar to playback the record. • The time bar is beginning with 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file.

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11	Backup	• Select the file(s) you want to backup from the file list. You can check from the list. Then click the backup button, now you can see the backup menu. System supports a customised path setup. After select or create new folder, click the Start button to begin the backup operation. The record file(s) will be saved in the specified folder. • Check the file again you can cancel current selection. System can display a maximum of 32 files from one channel. • After you clip on record file, click Backup button you can save it. • For one device, if there is a backup in process, you cannot start a new backup operation.
12	Clip	• This is to edit the file. • Please play the file you want to edit and then click this button when you want to edit. You can see the corresponding slide bars in the time bar of the corresponding channel. You can adjust the slide bar or input the accurate time to set the file end time. • After you set, you can click Clip button again to edit the second period. You can see the slide bar restore its previous position. • Click Backup button after clip, you can save current contents in a new file. • You can clip for one channel or multiple-channel. The multiple-channel click operation is similar with the one-channel operation. **Please note:** ● **System max supports 1024 files backup at the same time.** ● **You cannot operate clip operation if there is any file has been checked in the file list.**
13	Record type	In any play mode, the time bar will change once you modify the search type.
Other Functions		
14	Smart search	• When system is playing, you can select a zone in the window to begin smart search. Click the motion detect button to begin play. • Once the motion detect play has begun, click button again will terminate current motion detect file play. • There is no motion detect zone by default. • If you select to play other file in the file list, system switches to motion detect play of other file. • During the motion detect play process, you cannot implement operations such as change time bar, begin backward playback or frame by frame playback. • Please refer to chapter 4.8.2.1 Smart Search for detailed operation.
15	Other channel sync switch for playback	When playing the file, click the number button, the system can switch to the same period of the corresponding channel to play.

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16	Digital zoom	When the system is in full-screen playback mode, left click the mouse in the screen. Drag your mouse in the screen to select a section and then left click mouse to initiate a digital zoom. You can right click mouse to exit.
17	Manually switch channel when playback	During the file playback process, you can switch to other channel via the dropdown list or rolling the mouse. This function is null if there is no record file or system is in smart search process.

4.8.2.1 Smart Search

During the multiple-channel playback mode, double click one channel and then click the button, system begins smart search. System supports 396 (22x18 PAL) and 330 (22x15 NTSC) zones. Please left click mouse to select smart search zones. See Figure 4-62.

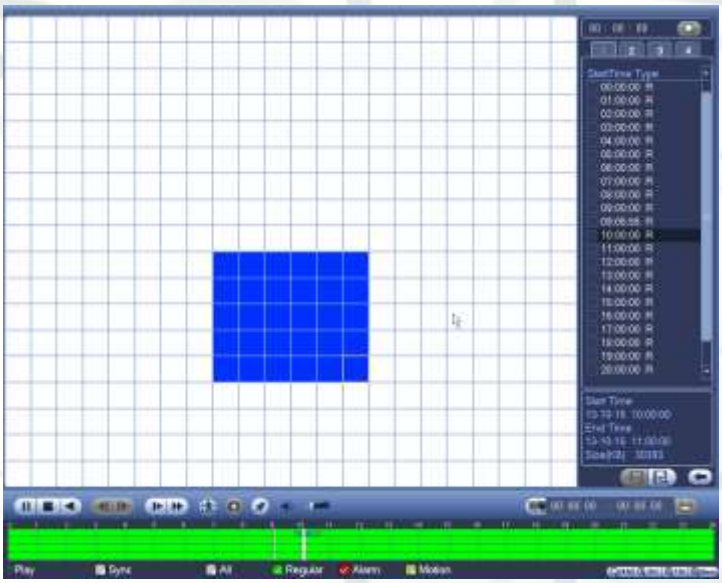

Figure 4-62

Click the , you can go to the smart search playback. Click it again, system stops smart search playback.

Important

- **System does not support motion detect zone setup during the full-screen mode.**
- **During the multiple-channel playback, system stops playback of rest channels if you implement one-channel smart search.**

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4.8.2.2 Accurate playback by time

Select records from one day, click the list, you can go to the file list interface. You can input time at the top right corner to search records by time. See image on the left side of the Figure 4-63 For example, input time 11:00.00 and then click Search button , you can view all the record files after 11:00.00 (The records includes current time.). See image on the right side of the Figure 4-63 Double click a file name to playback.

Note

- After you searched files, system implement accurate playback once you click Play for the first time.
- System does not support accurate playback for picture.
- System supports synchronization playback and non-synchronous playback. The synchronization playback supports all channels and non-synchronous playback only supports accurately playback of current select channel.

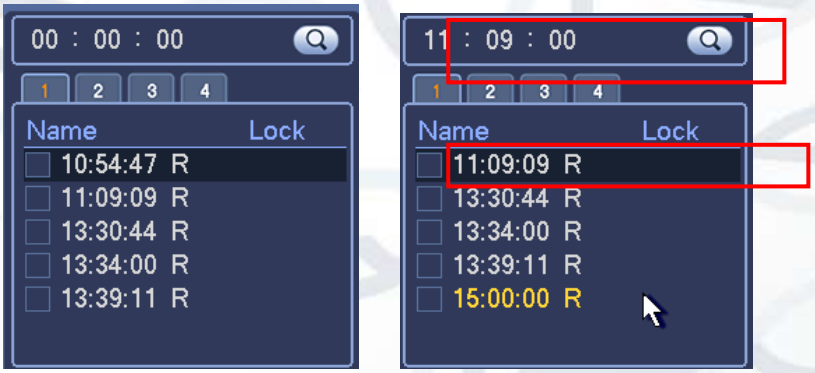

Figure 4-63

4.8.2.3 Mark Playback

Please make sure your purchased device support this function. You can use this function only if you can see the mark playback icon on the Search interface (Figure 4-61).

When you are playback record, you can mark the record when there is important information. After playback, you can use time or the mark key words to search corresponding record and then play. This is very easy for you to get the important video information.

- **Add Mark:** When system is playback, click Mark button , you can go to the following interface. See Figure 4-64.

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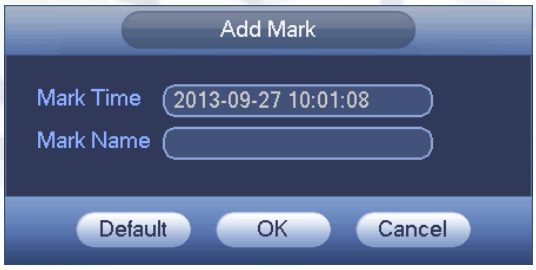

Figure 4-64

- **Playback Mark:** During 1-window playback mode, click mark file list button in Figure 4-61, you can go to mark file list interface. Double click one mark file, you can begin playback from the mark time.

- **Play before mark time:** Here you can set the it to begin playback from previous number of seconds of the mark time.

Note:
Usually, the system can playback previous N seconds record if there is such kind of record file. Otherwise, system playbacks from the previous X seconds when there is such as kind of record.

- **Mark Manager:** Click the mark manager button on the Search interface (Figure 4-61); you can go to Mark Manager interface. See Figure 4-65. System can manage all the record mark information of current channel by default. You can view all mark information of current channel by time.

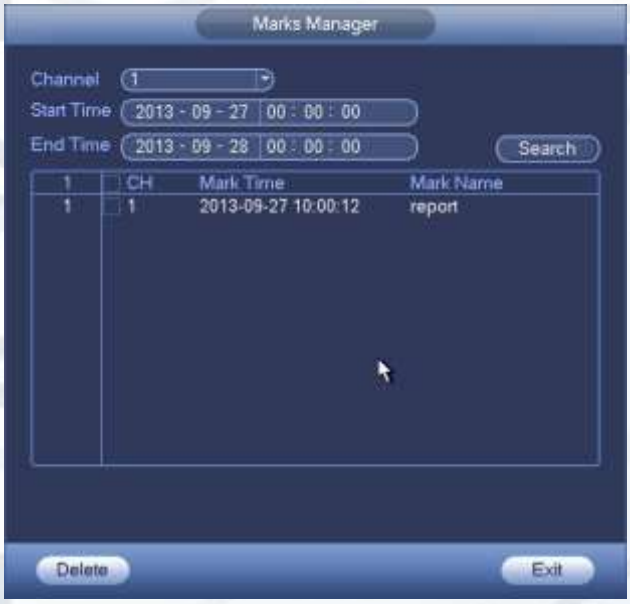

Figure 4-65

- **Modify:** Double click one mark information item, you can see system pops up a dialogue box for you to change mark information. You can only change mark name here.

- **Delete:** Here you can check the mark information item you want to delete and then click Delete button, you can remove one mark item. .

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Notes:

- After you go to the mark management interface, system needs to pause the current playback. System resumes playback after you exit mark management interface.
- If the mark file you want to playback has been removed, system begins playback from the first file in the list.

4.8.3 Picture Playback

a) From **Main menu->Search**, or on the preview interface right click mouse, you can go to Figure 4-61.
b) At the top right pane, you can check the box to select picture and then select playback interval.
c) Please refer to chapter 4.8.2 to select picture you want to view.

4.9 Backup

4.9.1 File Backup

In this interface, you can back up the recorded file to the USB device.

a) Connect the USB burner, USB device or portable HDD, etc.. to the device.
b) From **Main menu->Backup**, you can go to the Backup interface. See Figure 4-66

Figure 4-66

c) Select backup device and then set channel, file start time and end time.
d) Click add button, system begins the search. All matched files are listed below. System automatically calculates the capacity needed and remained. See Figure 4-67.

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e) System only backup files with a √ before channel name. You can use **Fn** or cancel button to delete √ after file serial number.

f) Click backup button, you can backup selected files. There is a process bar for your reference.

g) When the system completes backup, you will see a dialogue box prompting successful backup.

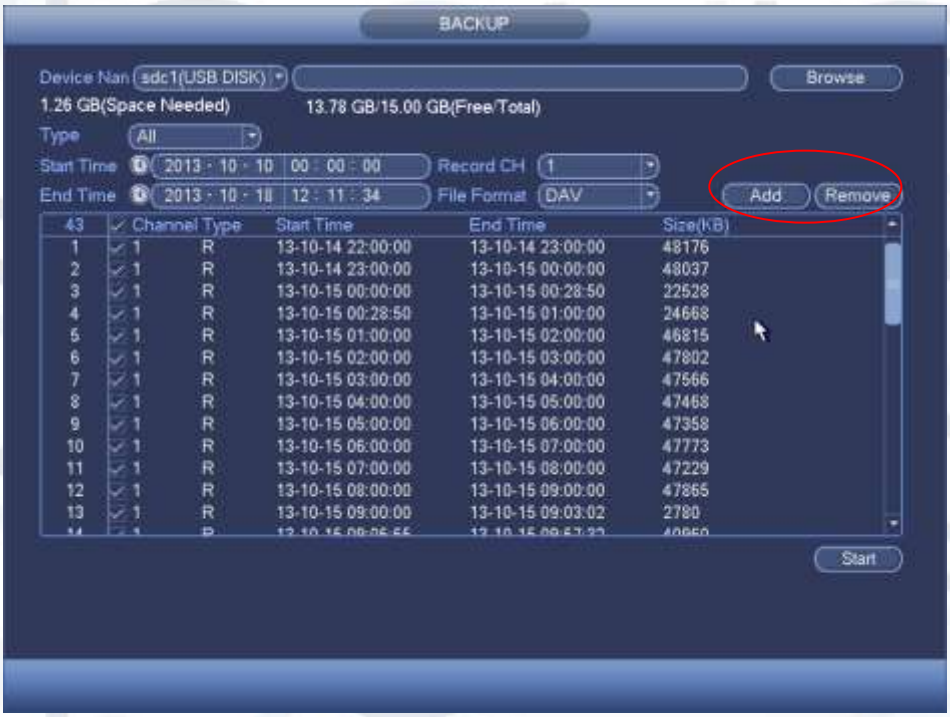

Figure 4-67

h) Click backup button, system begins burning. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom.

Note

- During backup process, you can click ESC to exit current interface for other operation (For some series product only). The system will not terminate backup process.
- The file name format usually is: **Channel number + Record type + Time**. In the file name, the YDM format is **Y+M+D+H+M+S**. File extension name is **.dav**.

4.9.2 Import/Export

This function allows you to copy current system configuration to other devices. It also supports import, create new folder, and delete folder etc. function.

From **Main menu->Setting->System->Import/Export**, you can see the configuration file backup interface is shown below. See Figure 4-68.

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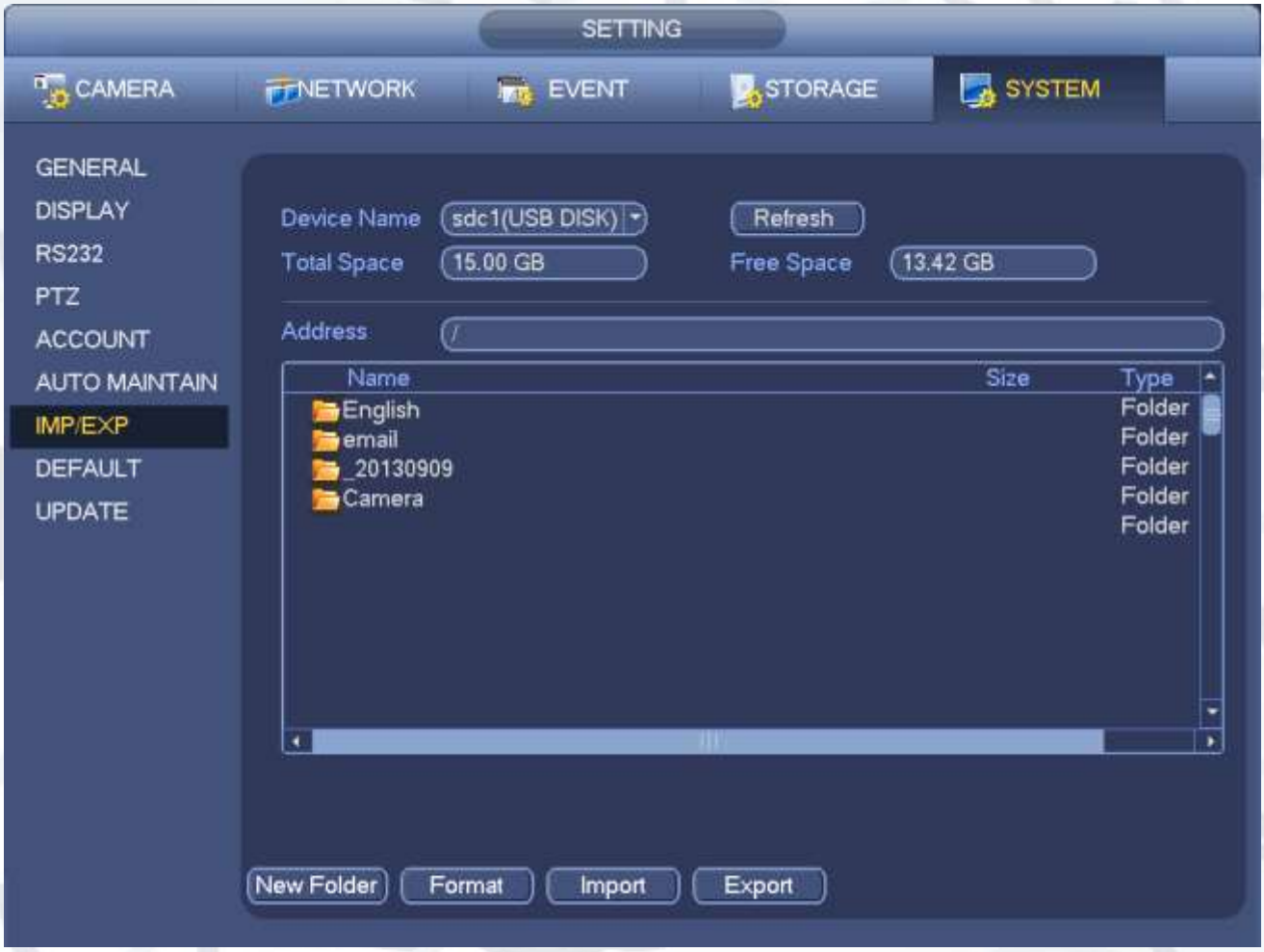

Figure 4-68

- **Export**: Please connect the peripheral device first and then go to the following interface. Click Export button, you will see there is a corresponding "**Config_Time**" folder. Double click the folder, you can view some backup files.
- **Import**: Here you can import the configuration files from the peripheral device to the current device. You need to select a folder first. You can see a dialogue box asking you to select a folder if you are selecting a file. System pops up a dialogue box if there is no configuration file under current folder. After the successful import, the system needs to reboot to activate new setup.
- **Format:** Click Format button, system pops up a dialogue box for you to confirm current operation. System begins format process after you click the OK button.

Notes:

- System cannot open config backup interface again if there is backup operation in the process.
- System refreshes device when you go to the config backup every time and set current directory as the root directory of the peripheral device.
- If you go to the configuration backup interface first and then insert the peripheral device, please click Refresh button to see the newly added device.

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4.9.3 Backup Log

a) From **Main menu->Info->Log**, the interface is shown below. See Figure 4-69.

INFO
SYSTEM
EVENT
NETWORK
LOG
LOG
Start Time 2013 - 11 - 07 00 : 00 : 00
End Time 2013 - 11 - 08 00 : 00 : 00
Types All
Search
19 Time Event Play Details
6 2013-11-07 18:01:01 Channel12 User logged in.
7 2013-11-07 18:01:01 Channel 4 User logged in.
8 2013-11-07 18:01:01 Channel 5 User logged in.
9 2013-11-07 18:01:01 Channel 6 User logged in.
10 2013-11-07 18:01:01 Channel 7 User logged in.
11 2013-11-07 18:01:01 Channel 8 User logged in.
12 2013-11-07 18:01:20 Channel 9 User logged in.
13 2013-11-07 18:01:20 Channel13 User logged in.
14 2013-11-07 18:01:20 Channel 2 User logged in.
15 2013-11-07 18:01:20 Channel 3 User logged in.
16 2013-11-07 20:13:01 User logged in.<10.15.6.122>
17 2013-11-07 20:13:01 User logged in.<10.15.6.122>
18 2013-11-07 20:14:01 User logged out.<admin>
19 2013-11-07 20:14:01 User logged out.<admin>
PgUp PgDn 1/1(Current Page/Total Page) Go To 1 Page(s)
Backup Clear

Figure 4-69

b) Select log type and then set start time/end time, click Search button, you can see log time and event information. Click to view detailed log information.

c) Select log items you want to save and then click backup button, you can select a folder to save them. Click Start to backup and you can see the corresponding dialogue box after the process is finish.

4.9.4 USB Device Auto Pop-up

After you inserted the USB device, system can auto detect it and pop up the following dialogue box. It allows you to conveniently backup file, log, configuration or update system. See Figure 4-70. Please refer to chapter 4.9.1 file backup, chapter 4.9.3 backup log, chapter 4.9.2 import/export, and chapter 4.8.2 search for detailed information.

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Figure 4-70

4.10 Alarm

4.10.1 Detect Alarm

In the main menu, from Setting to Detect, you can see motion detect interface. See Figure 4-71.There are three detection types: motion detection, video loss, tampering.

4.10.2 Motion Detect

After analysis video, system can generate a motion detect alarm when the detected moving signal reached the sensitivity you set here.

Detection menu is shown below. See Figure 4-71.

1. **Event type**: From the dropdown list you can select motion detection type.
2. **Channel**: Select a channel from the dropdown list to set motion detect function.
3. **Enable**: Check the box here to enable motion detect function.
4. **Region**: Click select button, the interface is shown in Figure 4-72. Here you can set the motion detection zone. There are four zones for you to set. Please select a zone first and then left drag the mouse to select a zone. The corresponding color zone displays different detection zone. You can click **Fn** button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember to click the save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.
5. **Sensitivity**: System supports 6 levels. The sixth level has the highest sensitivity.
6. **Anti-dither**: Here you can set the anti-dither time. The value ranges from 5 to 600 seconds. The anti-dither time refers to the alarm signal lasts time. The stay time here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if

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system detects the local alarm again. The screen prompt, alarm upload, email , etc. will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10 seconds while the screen prompt, alarm upload, email will not be activated again. After 10 seconds, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.

7. **Period**: Click the set button, you will see an interface is shown in Figure 4-74. Here you can set the motion detect period. System only enables motion detect operation in the specified periods. This is not for video loss or the tampering. There are two ways for you to set periods. Please note system only supports 6 periods in one day.

   In Figure 4-74, Select icon of several dates, all checked items can be edited together.

   Now the icon is shown . Click to delete a record type from one period.

   In Figure 4-74. Click button after one date or a holiday, you can see an interface shown in Figure 4-75. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
8. **Alarm output**: when an alarm occurs, system enables peripheral alarm devices.
9. **Latch:** when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
10. **Show message**: System can pop up a message to alarm you in the local host screen if you enabled this function.
11. **Alarm upload**: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
12. **Send email**: System can send out email to alert you when an alarm occurs.
13. **Record channel**: System auto activates motion detection channel(s) to record once an alarm occurs. Please make sure you have set MD record in Schedule interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)
14. **PTZ activation**: Here you can set the PTZ movement when an alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click “select” button, you can see an interface is shown in Figure 4-73.
15. **Record Delay**: System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
16. **Tour:** Here you can enable tour function when alarm occurs. System one-window tour.
17. **Snapshot:** You can enable this function to snapshoot image when a motion detect alarm occurs.
18. **Video matrix:** Check the box here to enable this function. When an alarm occurs, SPOT OUT port displays device video output. It displays video (1-window tour) from alarm activation channel you select at the Record channel item.
19. **Buzzer:** Highlight the icon to enable this function. The buzzer beeps when alarm occurs.

    Please highlight icon to select the corresponding function. After all the setups please click save button, system goes back to the previous menu.

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Note:
In motion detection mode, you cannot use copy/paste to set channel setup since the video in each channel may not be the same.

In Figure 4-72, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

Figure 4-71

Figure 4-72

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Figure 4-73

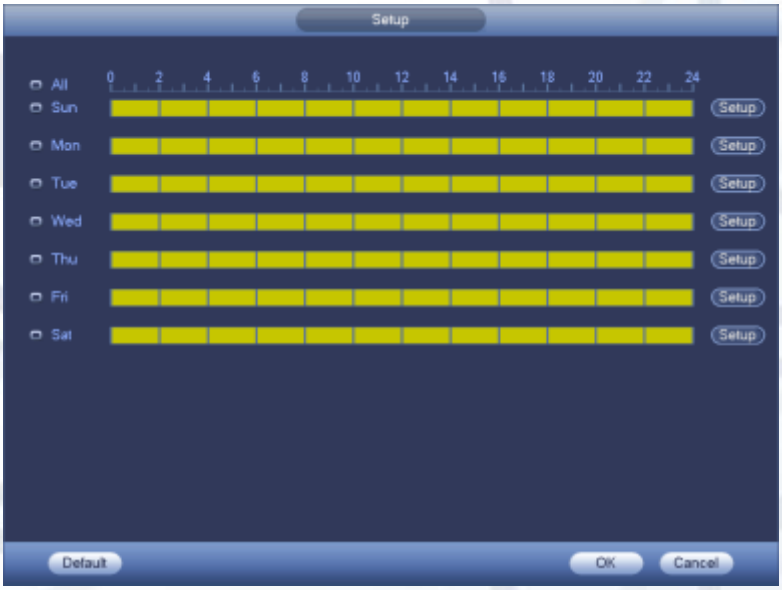

Figure 4-74

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Time Period
Current Date: Sun
Period 1 00 : 00 - 24 : 00
Period 2 00 : 00 - 24 : 00
Period 3 00 : 00 - 24 : 00
Period 4 00 : 00 - 24 : 00
Period 5 00 : 00 - 24 : 00
Period 6 00 : 00 - 24 : 00
Copy
All Sun Mon Tue Wed Thu Fri Sat
Save

Figure 4-75

Motion detect here only has relationship with the sensitivity and region setup. It has no relationship with other setups.

4.10.2.1 Tampering

When someone masks the camera lens for undesirable intentions, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Tampering interface is shown in Figure 4-76. You can enable “Alarm output “or “Show message” function when tampering alarm occurs.

- **Sensitivity**: The value ranges from 1 to 6. It mainly concerns the brightness. The level 6 has the higher sensitivity than level 1. The default setup is 3.

Tips:
You can enable preset/tour/pattern activation operation when video loss occurs.

Please refer to chapter 4.10.2 motion detection for detailed information.

Notes:
- In Detect interface, copy/paste function is only valid for the same type, which means you cannot copy a channel setup in video loss mode to tampering mode.
- Default function: Since detection channel and detection type may not be the same, system can only restore default setup of current detect type. For example, if you click Default button at the tampering interface, you can only restore default tampering setup. This is null for other detect types.
- System only enables tampering function during the period you set here. This is null for motion detect or video loss type.

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Figure 4-76

4.10.2.2 Video Loss

In Figure 4-71, select video loss from the type list. You can see the interface is shown in Figure 4-77. This function allows you to be informed when video loss phenomenon occurred.

You can enable alarm output channel and then enable show message function.

You can refer to chapter **4.10.2 Motion detect** for detailed information.

Tip:
You can enable preset/tour/pattern activation operation when video loss occurs.

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Figure 4-77

4.10.3 Alarm output

From **Main menu->Setting->Event->Alarm output**, you can see an interface shown in Figure 4-78. This is for you to set a proper alarm output (Auto/manual/stop). Click OK button for the alarm to reset, it will clear all alarm output statuses.

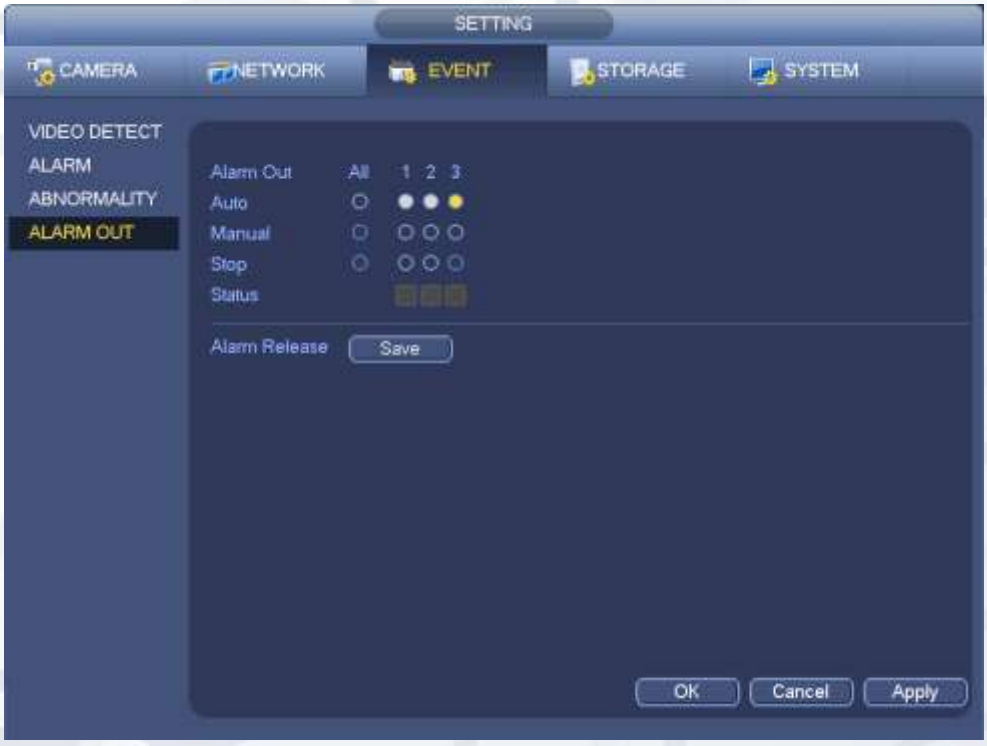

Figure 4-78

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Please highlight icon to select the corresponding alarm output.
After all the setups please click OK button, system goes back to the previous menu.

4.10.4 Alarm Setup

In the main menu, from Setting->Event->Alarm, you can see alarm setup interface.

1. **Alarm in**: This is for you to select channel number. In the main menu, from **Setting->Event->Alarm**, you can see alarm setup interface. See Figure 4-79. There are four alarm types. See Figure 4-79 to Figure 4-82.
2. **Local alarm:** The alarm signal system detects from the alarm input port.
3. **Network alarm:** This is the alarm signal from the network.
4. **IPC external alarm:** This is the on-off alarm signal from the front-end device and can activate the local HNVR.
5. **IPC offline alarm:** Once you select this item, system can generate an alarm when the front-end IPC disconnects with the local HNVR. The alarm can activate record, PTZ, snap , etc.. The alarm can last until the IPC and the HNVR connection resumes.

Important

- **If this is your first time to booting up the device, the disconnection status of the front-end network camera will not be regarded as offline. After one successful connection, all the disconnection events will be regarded as an IPC offline event.**
- **When an IPC offline alarm occurs, the record and snapshot function of digital channel is null.**

6. **Enable:** You need to highlight this button to enable current function.
7. **Type:** Normal open or normal close.
8. **Period:** Click set button, you can see an interface is shown in Figure 4-84. There are two ways for you to set periods. There are max 6 periods in one day. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
    a. In Figure 4-84, Select icon of several dates, all checked items can be edited together. Now the icon is shown . Click to delete a record type from one period.
    b. In Figure 4-84. Click button after one date or a holiday, you can see an interface shown in Figure 4-85. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
9. **PTZ activation**: When an alarm occurred, system can activate the PTZ operation. The PTZ activation lasts an anti-dither period. See Figure 4-83.
10. **Anti-dither:** Here you can set the anti-dither time. The value ranges from 5 to 600s. The anti-dither time refers to the alarm signal lasts time. The alarm signal activation will include the buzzer, tour, PTZ activation, snapshot, channel record. The stay time here

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does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email , etc. will not be activated. For example, if you set the anti-dither time as 10 seconds, you will see the each activation may last 10 seconds if the local alarm is activated. During the process, if the system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10seconds while the screen prompt, alarm upload, email will not be activated again. After 10seconds, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.

11. **Alarm output:** The number here is the device alarm output port. You can select the corresponding ports(s) so that system can activate the corresponding alarm device(s) when an alarm has occurred.
12. **Latch:** When the anti-dither time has ended, the channel alarm you select in the alarm output may last a specified period. The value ranges from 1 to 300 seconds. This function is not for other alarm activation operations. The latch is still valid even you disable the alarm event function directly.
13. **Show message:** The system can pop up a message to alarm you in the local host screen if you have enabled this function.
14. **Alarm upload:** System can upload the alarm signal to the network (including alarm centre and the WEB) if you have enabled the current function. System only uploads the alarm channel status. You can go to the WEB and then go to the Alarm interface to set alarm event and alarm operation. Please go to the Network interface to set alarm centre information.
15. **Send email:** System can send out the alarm signal via the email to alert you when alarm occurs. Once you enable the snap function, system can also send out an image as the attachment. Please go to the **Main Menu->Setting ->Network->Email** interface to set.
16. **Record channel**: you can select proper channel to record alarm video (Multiple choices).
    a. You need to set alarm record mode as Schedule in Record interface (**Main Menu->Advanced->Record**). Please note the manual record has the highest priority. System record all the time no matter there is an alarm or not if you select Manual mode.
    b. Now you can go to the Schedule interface (**Main Menu->Setting->Schedule**) to set the record type, corresponding channel number, week and date. You can select the record type: Regular/MD/Alarm/MD & Alarm. Please note, you cannot select the MD & Alarm and MD (or Alarm) at the same time.
    c. Now you can go to the Encode interface to select the alarm record and set the encode parameter (**Main Menu->Setting->Encode**).
    d. Finally, you can set the alarm input as the local alarm and then select the record channel. The select channel begins alarm record when an alarm occurred. Please note system begins the alarm record instead of the MD record if the local alarm and MD event occurred at the same time.
17. Tour: Here you can enable tour function when an alarm occurs. System supports 1/8-window tour. Please go to chapter4.5.4.2 Display for tour interval setup. Please note the tour setup here has higher priority than the tour setup you set in the Display interface. Once both the two tours are both enabled, system can enable the alarm tour as you set here when an alarm occurred. If there is no alarm, system implements the tour setup in the display interface.

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18. Snapshot: You can enable this function to snapshoot image when an alarm occurs.
19. Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

Figure 4-79

Figure 4-80

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Figure 4-81

Figure 4-82

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Figure 4-83

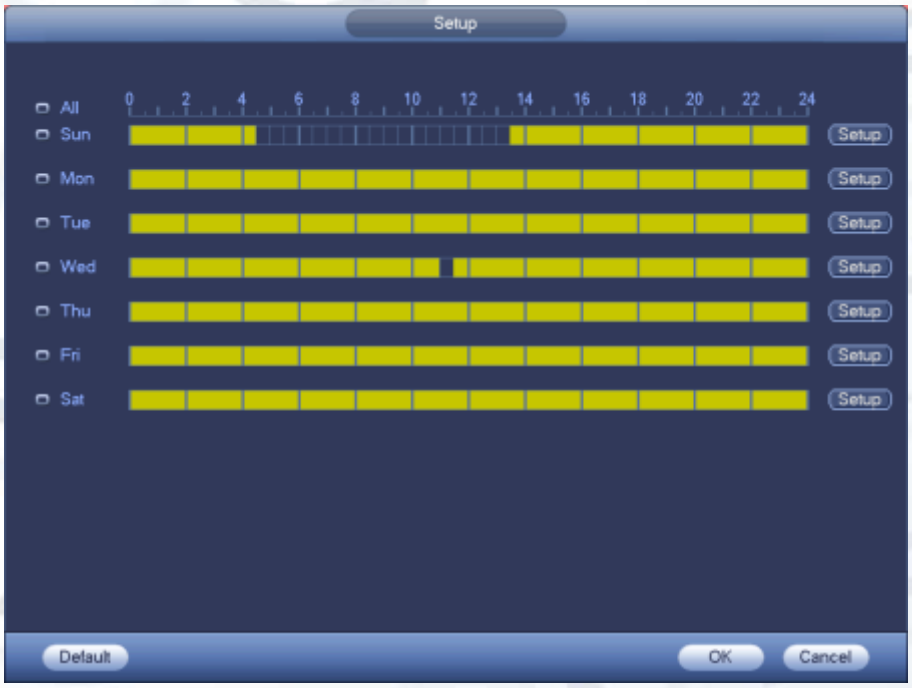

Figure 4-84

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Time Period
Current Date: Sun
Period 1 00 : 00 - 24 : 00
Period 2 00 : 00 - 24 : 00
Period 3 00 : 00 - 24 : 00
Period 4 00 : 00 - 24 : 00
Period 5 00 : 00 - 24 : 00
Period 6 00 : 00 - 24 : 00
Copy
All Sun Mon Tue Wed Thu Fri Sat
Save

Figure 4-85

Please highlight icon to select the corresponding function. After setting all the setups please click save button, system goes back to the previous menu.

4.10.5 Abnormality

There are two types: Disk/Network:

1. **Disk:** Disk error, no disk, no space. See Figure 4-86 and Figure 4-87.
2. **Network:** Disconnection, IP conflict, MAC conflict. See Figure 4-88.

- **Alarm output**: Please select the alarm activation output port (multiple choices).
- **Less than**: System can alert you when the HDD space is less than the threshold you set here (For HDD no space type only).
- **Latch:** Here you can set the corresponding delaying time. The value ranges from 1s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- **Show message**: system can pop up a message in the local screen to alert you when an alarm has occurred.
- **Alarm upload**: System can upload the alarm signal to the network (including alarm centre) if you enabled current function. For disconnection event, IP conflict event and MAC conflict event, this function is null.
- **Send email:** System can send out email to alert you when alarm occurs.
- **Buzzer:** Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.

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Figure 4-86

Figure 4-87

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Figure 4-88

4.11 Network

4.11.1 Basic Setup

The single network adapter interface is shown in Figure 4-89 and the dual network adapters interface is shown in Figure 4-90.

- **Network Mode**: Includes multiple access, fault tolerance, and load balancing

  ✧ Multiple-address mode: eth0 and eth1 operate separately. You can use the services such as HTTP, RTP service via etho0 or the eth1. Usually you need to set one default card (default setup is etho) to request the auto network service form the device-end such as DHCP, email, FTP , etc.. In multiple-address mode, system network status is shown offline once one card is offline.

  ✧ Network fault-tolerance: In this mode, device uses bond0 to communicate with the external devices. You can focus on one host IP address. At the same time, you need to set one master card. Usually there is only one running card (master card).System can enable alternate card when the master card is malfunction. The system is shown offline once these two cards are both offline. Please note these two cards shall be in the same LAN.

  ✧ Load balance: In this mode, device uses bond0 to communicate with the external device. The eth0 and eth1 are both working now and bearing the network load. Their network load are general the same. The system is shown offline once these two cards are both offline. Please note these two cards shall be in the same LAN.

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- **Default Network Card**: Please select eth0/eth1/bond0(optional) after enable multiple-access function
- **Main Network Card:** Please select eth0/eth1 (optional).after enable multiple access function.

Note: The dual-Ethernet port series support the above three configurations and supports functions as multiple-access, fault-tolerance and load balancing.

- **IP Version**: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
- **MAC address**: The host in the LAN can get a unique MAC address. This is for you to access in the LAN. This is read-only.
- **IP address**: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the the corresponding subnet mask the default gateway.
- **Default gateway**: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.
- **DHCP**: This is to auto search IP. When enable DHCP function, you cannot modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you cannot modify IP/Subnet mask /Gateway.
- **MTU**: This is to set MTU value of the network adapter. The value ranges from 1280-7200 bytes. The default setup is 1500 bytes. Please note MTU modification may result in network adapter reboot and network becomes off. That is to say, MTU modification can affect current network service. System may pop up dialog box for you to confirm setup when you want to change MTU setup. Click OK button to confirm current reboot, or you can click Cancel button to terminate current modification. Before the modification, you can check the MTU of the gateway; the MTU of the NVR shall be the same as or is lower than the MTU of the gateway. In this way, you can reduce packets and enhance network transmission efficiency.

The following MTU value is for reference only:

- ✧ **1500:** Ethernet information packet max value and This is also the default value. This is the typical setup when there is no PPPoE or VPN. This is the default setup of some router, switch or the network adapter.
- ✧ **1492:** Recommend value for PPPoE.
- ✧ **1468:** Recommend value for DHCP.

- **Preferred DNS server:** DNS server IP address.
- **Alternate DNS server**: DNS server alternate address.
- **Transfer mode:** Here you can select the priority between fluency/video qualities.
- **LAN download:** System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.
- **LAN download:** System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

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After completing all the setups please click save button, system goes back to the previous menu.

Figure 4-89

Figure 4-90

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4.11.1.1 Connection

The connection setup interface is shown in Figure 4-91.

- Max connection: system support maximal 128 users. 0 means there is no connection limit.
- TCP port: Default value is 37777.
- UDP port: Default value is 37778.
- HTTP port: Default value is 80.
- HTTPS port: Default value is 443.
- RTSP port: Default value is 554.

Important: System needs to reboot after you changed and saved any setup of the above four ports. Please make sure the port values here do not conflict.

Figure 4-91

4.11.1.2 WIFI

The WIFI interface is shown below. See Figure 4-92.

- **Enable**: Check the box here to enable WIFI function.
- **Refresh**: You can click it to search the hotspot list again. It can automatically add the information such as the password if you have set it before.
- **Disconnect**: Here you can click it to turn off the connection.
- **Connect**: Here you can click it to connect to the hotspot. System needs to turn off current connection and then connect to a new hotspot if there is connection of you selected one.

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Figure 4-92

- WIFI working status: Here you can view current connection status.

Please note:

- After a successful connection, you will see WIFI connection icon at the top right corner of the preview interface.
- When the hotspot verification type is WEP, system displays as AUTO since the device cannot detect its encryption type.
- System does not support verification type WPA and WPA2. The display may become abnormal for the verification type and encryption type.

After device successfully connected to the WIFI, you can view the hotspot name, IP address, subnet mask, default gateway, etc. Right now the system support **TOTOLINK_N2200UP** module.

4.11.1.3 3G

3G setup interface is shown below. See Figure 4-93.

Please refer to the following contents for the parameter information.

- **Pane 1:** Display 3G signal intensity after you enabled 3G function.
- **Pane 2:** Display 3G module configuration information after you enabled 3G function.
- **Pane 3:** Display 3G module status information after you enabled 3G function.

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This is to display current wireless network signal intensity such as EVDO, CDMA1x, WCDMA, WCDMA, EDGE , etc.

- **3G module:** This is to display current wireless network adapter name.
- **3G Enable/Disable:** Check the box here to enable 3G module.
- **Network type:** There are various network types for different 3G network modules. You can select according to your requirements.
- **APN:** This is the wireless connection server. This is to set you access the wireless network via which method.
- **AUTH:** This is the authentication mode. It supports PAP/CHAP.
- **Dial number**: Please input 3G network dialup number you got from your ISP.
- **User name:** This is the user name for you to login the 3G network.
- **Password:** This is the password for you to login the 3G network.
- **Pulse interval:** You can set the dialup duration. Once you disable the extra stream, the connection time begins. For example, if you input 5 seconds here, then 3G network connection period is 5 seconds. The device automatically disconnect when time is up. If there is no extra stream, 3G network connection is valid all the time. **If the alive time is 0, then the 3G network connection is valid all the time.**
- **Dial:** Here you can enable or disable 3G network connection/disconnection manually.
- **3G wireless network:** Here is to display wireless network status, SIM card status, dial status. If the 3G connection is OK, then you can see the device IP address the wireless network automatically allocates.

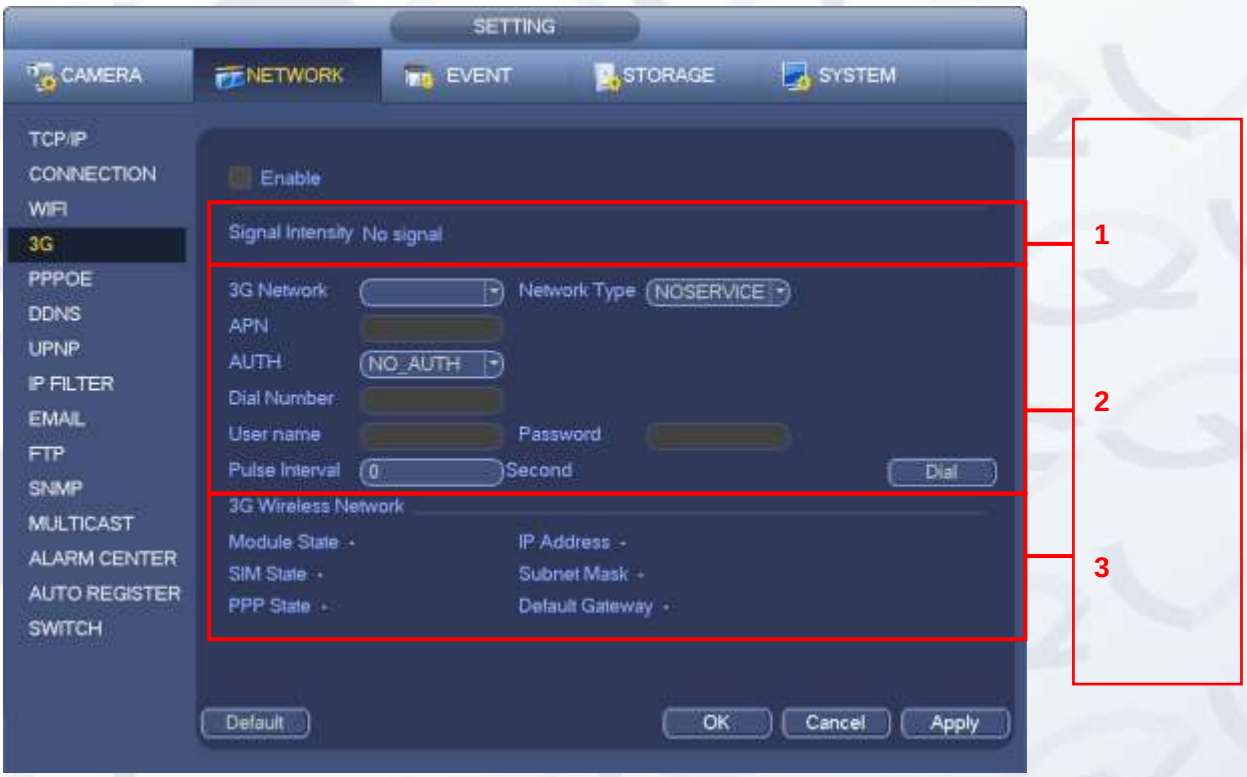

Figure 4-93

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4.11.1.4 PPPoE

PPPoE interface is shown in Figure 4-94.

Input “PPPoE name” and “PPPoE password” you get from your ISP (Internet service provider). Click save button, you need to restart to activate your configuration.

After rebooting, NVR will connect to internet automatically. The IP in the PPPoE is the NVR dynamic value. You can access this IP to visit the unit.

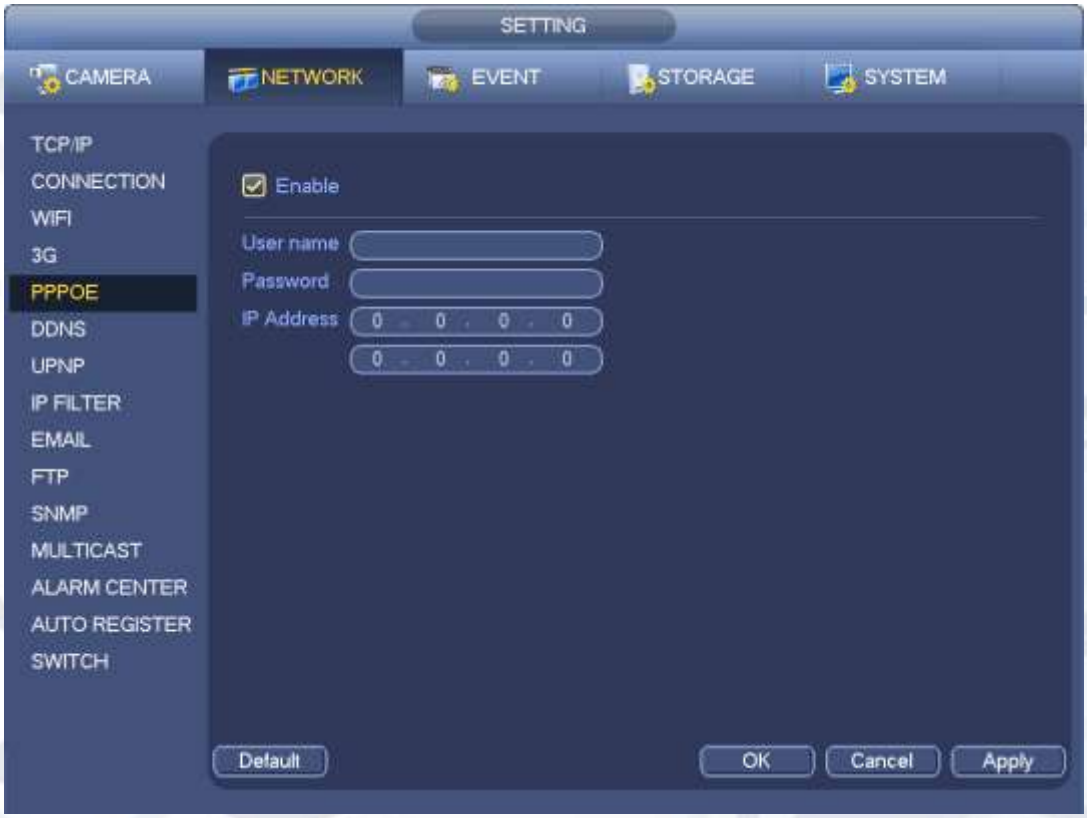

Figure 4-94

4.11.1.5 DDNS Setup

DDNS setup interface is shown in Figure 4-95.

You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).

1. In network DDNS, please select DDNS type and highlight enable item. Then please input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click save button and then reboot system.

2. Click save button, system prompts you to reboot to get all setup activated.

3. After rebooting, open Internet Explorer and input as below:

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http：//(DDNS server IP)/(virtual directory name)/webtest.htm

e.g.: **http：//10.6.2.85/NVR _DDNS/webtest.htm**

4. Now you can open DDNSServer web search page.

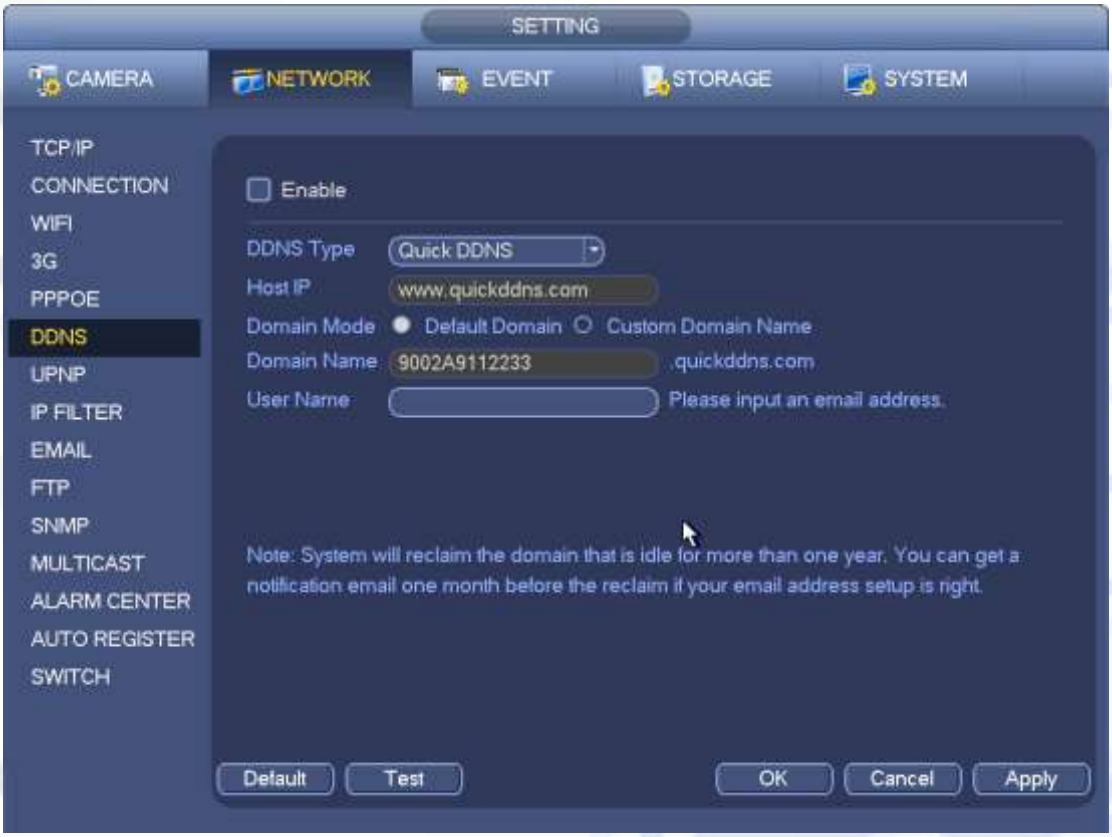

Figure 4-95

Please note NNDS type includes: CN99 DDNS, NO-IP DDNS, Quick DDNS, Dyndns DDNS and sysdns DDNS. All the DDNS can be valid at the same time, you can select as you require.

Private DDNS function shall work with special DDNS server and special Professional Surveillance Software (PSS).

Quick DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the NVR via the registered domain name. Besides the general DDNS, the Quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It bonds the domain name and the IP address together. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default

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domain name (Generated by MAC address) for your option. You can also use customised valid domain name (has not registered.).

3) Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- Server address：**www.quickddns.com**
- Port number：**80**
- Domain name：There are two modes: Default domain name and customised domain name.

Instead of a default domain name registration, you can also use customised domain name (You can input your self-defined domain name.) After a successful registration, you can use domain name to login installed of the device IP.

- **User name:** This is optional. You can input your commonly used email address.

Important

- **Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in a server attack.**
- **System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.**

4.11.1.6 UPnP

The UPNP protocol is to establish a mapping relationship between the LAN and the WAN. Please input the router IP address in the LAN in Figure 4-89. See Figure 4-96.

- **UPNP on/off** ：Turn on or off the UPNP function of the device.
- **Status**: When the UPNP is offline, it shows as “Unknown”. When the UPNP works it shows “Success”
- **Router LAN IP**: This is the router IP in the LAN.
- **WAN IP**: This is the router IP in the WAN.
- **Port Mapping list**：The port mapping list here is the one to one relationship with the router’s port mapping setting.
- **List**：
  - ✧ **Service name**：Defined by user.
  - ✧ **Protocol**： Protocol type
  - ✧ **Internal port**：Port that has been mapped in the router.
  - ✧ **External port**：Port that has been mapped locally.
- **Default**: UPNP default port setting is the HTTP, TCP and UDP of the NVR.
- **Add to the list**: Click it to add the mapping relationship.
- **Delete**: Click it to remove one mapping item.

Double click one item; you can change the corresponding mapping information. See Figure 4-97.

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Important:

- **When you are setting the router external port, please use 1024~5000 port. Do not use well-known port 1~255 and the system port 256~1023 to avoid conflict.**
- **For the TCP and UDP, please make sure the internal port and external port are the same to guarantee the proper data transmission.**

Figure 4-96

Figure 4-97

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4.11.1.7 IP Filter

IP filter interface is shown in Figure 4-98. You can add IP in the following list. The list supports max 64 IP addresses. System supports valid address of IPv4 and IPv6.

Please note system needs to check the validity of all IPv6 addresses and implement optimization.

After you have enabled trusted sites function, only the IP listed below can access current NVR.
If you enable blocked sites function, the following listed IP addresses cannot access current NVR.

- **Enable:** Highlight the box here, you can check the trusted site function and blocked sites function. You cannot see these two modes if the Enable button is grey.
- **Type:** You can select trusted site and blacklist from the dropdown list. You can view the IP address on the following column.
- **Start address/end address:** Select one type from the dropdown list, you can input IP address in the start address and end address. Now you can click Add IP address or Add IP section to add.
  a) For the newly added IP address, this is in enable status by default. Remove the √ before the item, and then current item will not be in the list.
  b) System max supports 64 items.
  c) Address column supports IPv4 or IPv6 format. If This is IPv6 address, system can optimize it. For example, system can optimize aa:0000: 00: 00aa: 00aa: 00aa: 00aa: 00aa as aa:: aa: aa: aa: aa: aa: aa.
  d) System automatically removes space if there is any space before or after the newly added IP address.
  e) System only checks start address if you add IP address. System check start address and end address if you add IP section and the end address shall be larger than the start address.
  f) System may check newly added IP address exists or not. System does not add if input IP address does not exist.
- **Delete:** Click it to remove specified item.
- **Edit:** Click it to edit start address and end address. See Figure 4-99. System can check the IP address validity after the edit operation and implement IPv6 optimization.
- **Default:** Click it to restore default setup. In this case, the trusted sites and blocked sites are both null.

Note:

- If you enabled trusted sites, only the IP in the trusted sites list can access the device.
- If you enabled blocked sites, the IP in the blocked sites cannot access the device.
- System supports add MAC address.

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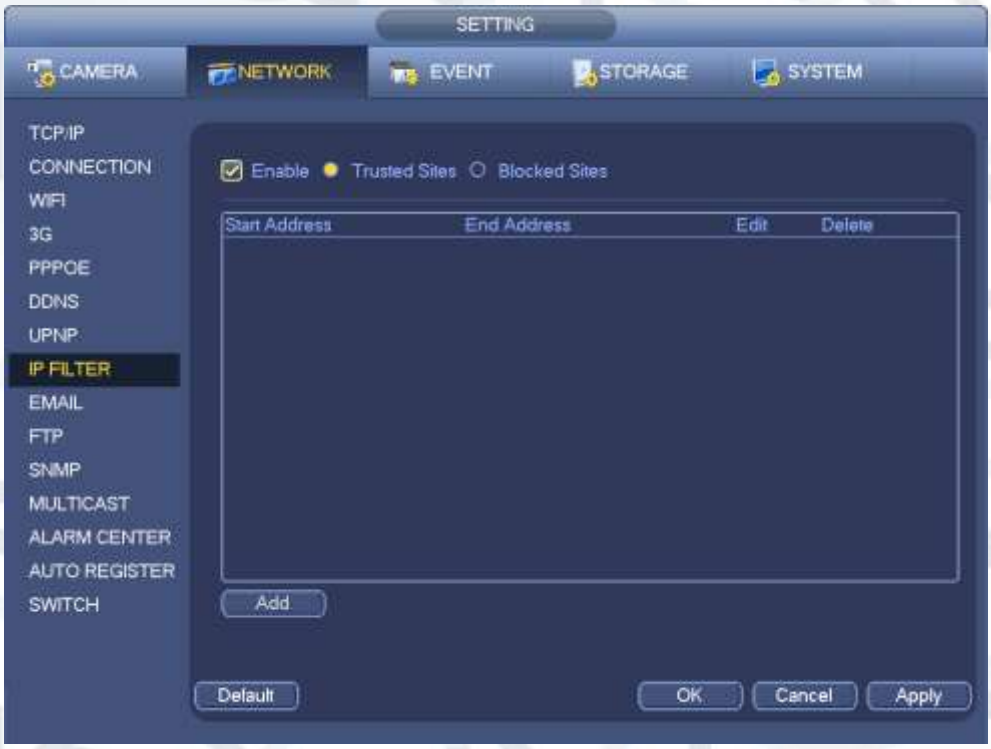

Figure 4-98

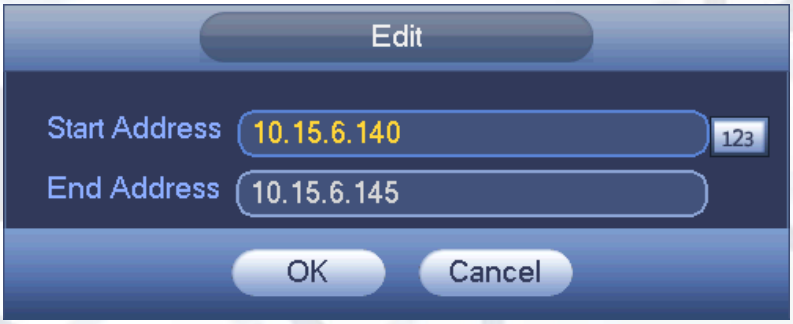

Figure 4-99

4.11.1.8 Email

The email interface is shown below. See Figure 4-100.

- **SMTP server**: Please input your email SMTP server IP here.
- **Port**: Please input corresponding port value here.
- **User name**: Please input the user name to login the sender email box.
- **Password**: Please input the corresponding password here.
- **Sender**: Please input sender email box here.
- **Title**: Please input email subject here. System support English character and Arabic number. Max 32-digit.
- **Receiver:** Please input receiver email address here. System max supports 3 email boxes. System automatically filters same addresses if you input one receiver repeatedly.
- **SSL enable**: System supports SSL encryption box.
- **Interval:** The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.

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- **Health email enable**: Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
- **Interval:** Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here. Click the Test button, you can see the corresponding dialogue box to see the email connection is OK or not.

Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, the system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.

Figure 4-100

4.11.1.9 FTP

You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

Please install Ser-U FTP SERVER first. From "**start" -> "program" -> Serv-U FTP Server -> Serv-U Administator**. Now you can set the user password and FTP folder. Please note you need to grant write right to FTP upload user. See Figure 4-101.

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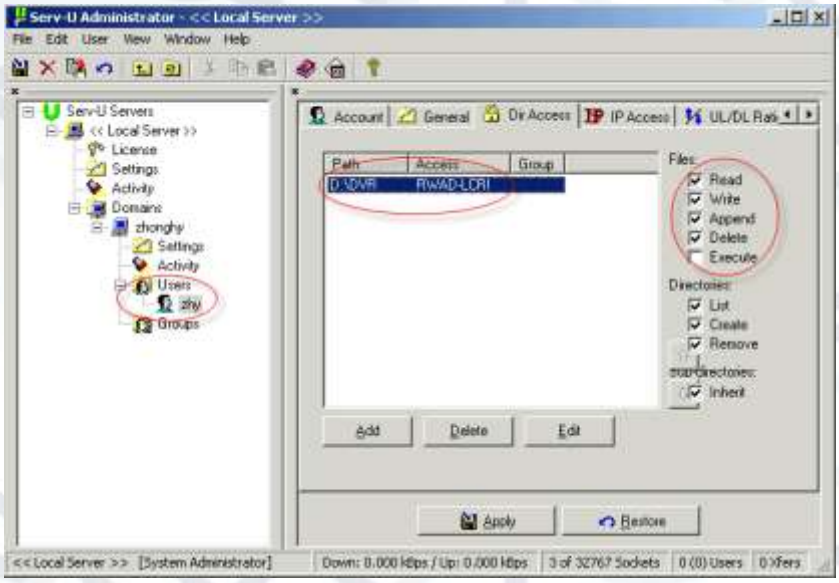

Figure 4-101

You can use a PC or FTP login tool to test setup is right or not.

For example, you can login user ZHY to FTP://10.10.7.7 and then test it can modify or delete folder or not. See Figure 4-102.

Internet Explorer
To log on to this FTP server, type a user name and password.
FTP server: 10.10.7.7
User name:
Password:
After you log on, you can add this server to your Favorites and return to it easily.
Log on anonymously
Log On
Cancel

Figure 4-102

System also supports upload multiple NVRs to one FTP server. You can create multiple folders under this FTP.

FTP interface is shown in Figure 4-103.

Please highlight the icon in front of Enable to activate FTP function.

Here you can input FTP server address, port and remote directory. When remote directory is null, system automatically create folders according to the IP, time and channel.

User name and password is the account information for you to login the FTP.

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File length is upload file length. When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.

After completing the channel and weekday setup, you can set the two periods for one each channel.

Click the Test button, you can see the corresponding dialogue box to see the FTP connection is OK or not.

Figure 4-103

4.11.1.10 SNMP

SNMP is an abbreviation of Simple Network Management Protocol. It provides the basic network management frame of the network management system. The SNMP widely used in many environments. This is used in many network device, software and system.

You can set the in the following interface. See Figure 4-104.

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Figure 4-104

Please enable the SNMP function. Use the corresponding software tool (MIB Builder and MG-SOFT MIB Browser. You still need two MIB file: BASE-SNMP-MIB, NVR-SNMP-MIB) to connect to the device. You can get the device corresponding configuration information after successfully connecting.

Please follow the steps listed below to configure.

- In Figure 4-104, check the box to enable the SNMP function. Input the IP address of the PC than is running the software in the Trap address. You can use default setup for the rest items.
- Compile the above mentioned two MIB file via the software MIB Builder.
- Run MG-SOFT MIB Browser to load the file from the previous step to the software.
- Input the device IP you want to manage in the MG-SOFT MIB Browser. Please set the corresponding version for your future reference.
- Open the tree list on the MG-SOFT MIB Browser; you can get the device configuration. Here you can see the device has how many video channels, audio channels, application version , etc..

Note:
Port conflict occurs when SNMP port and Trap port are the same.

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4.11.1.11 Multicast

Multicast setup interface is shown in Figure 4-105.

Figure 4-105

Here you can set a multiple cast group. Please refer to the following sheet for detailed information.

- IP multiple cast group address

-224.0.0.0-239.255.255.255

-“D” address space

  - The higher four-bit of the first byte=”1110”

- Reserved local multiple cast group address

-224.0.0.0-224.0.0.255

-TTL=1 When sending out telegraph

-For example

224.0.0.1 All systems in the sub-net

224.0.0.2 All routers in the sub-net

224.0.0.4 DVMRP router

224.0.0.5 OSPF router

224.0.0.13 PIMv2 router

- Administrative scoped addressees

-239.0.0.0-239.255.255.255

-Private address space

  - Like the single broadcast address of RFC1918
  - Cannot be used in Internet transmission
  - Used for multiple cast broadcast in limited space.

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Except the above mentioned addresses of special meaning, you can use other addresses. For example:
Multiple cast IP: 235.8.8.36
Multiple cast PORT: 3666.

After you logged in the Web, the Web can automatically get multiple cast address and add it to the multiple cast groups. You can enable real-time monitor function to view the view.

Please note multiple cast function applies to special series only.

4.11.1.12 Alarm Centre

This interface is reserved for you to develop. See Figure 4-106.

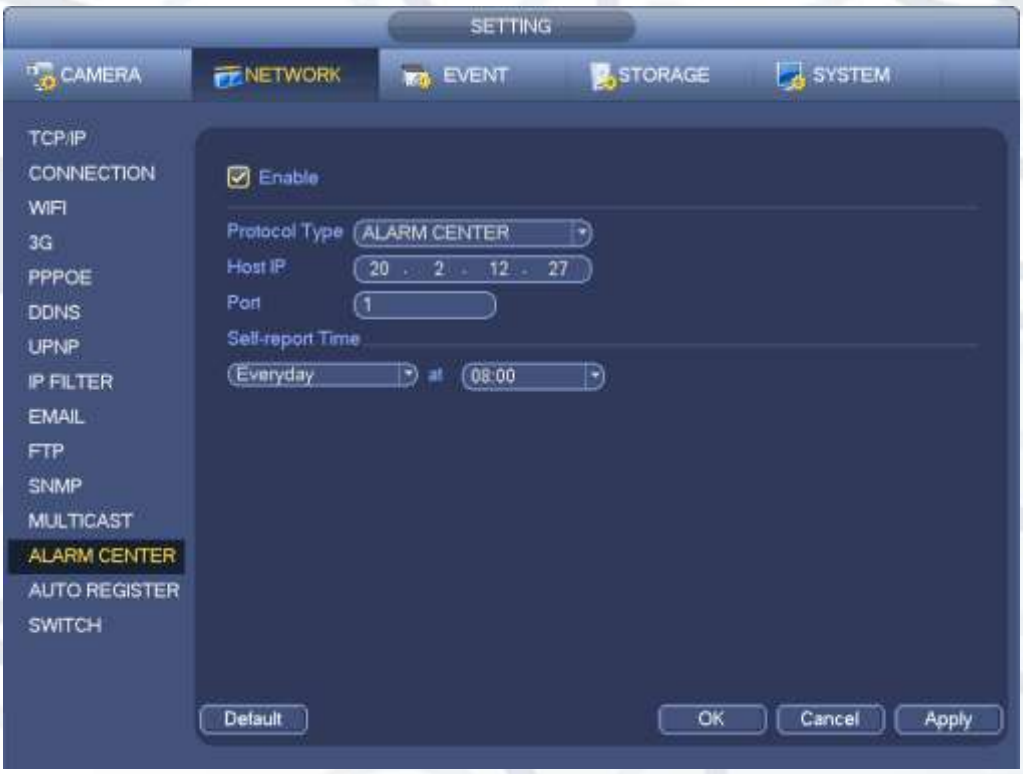

Figure 4-106

4.11.1.13 Auto register

This function allows the device to auto register to the proxy you specified. In this way, you can use the client-end to access the NVR via the proxy. Here the proxy has a switch function. In the network service, device supports the server address of IPv4 or domain.

Please follow the steps listed below to use this function.

Please set proxy server address, port, and sub-device name at the device-end. Please enable the auto register function, the device can auto register to the proxy server.

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The setup interface is shown in Figure 4-107.

Important

Do not input network default port such as TCP port number.

Figure 4-107

1) The proxy server software developed from the SDK. Please open the software and input the global setup. Please make sure the auto connection port here is the same as the port you set in the previous step.
2) Now you can add device. Please do not input default port number such as the TCP port in the mapping port number. The device ID here shall be the same with the ID you input in Figure 4-107. Click Add button to complete the setup.
3) Now you can boot up the proxy server. When you see the network status is Y, it means your registration is OK. You can view the proxy server when the device is online.

Important

The server IP address can also be domain. But you need to register a domain name before you run proxy device server.

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4.11.1.14 Switch

This is for you to set IP address, subnet mask, gateway , etc. of the Switch. See Figure 4-108.

Figure 4-108

4.11.2 Network Test

In this interface, you can see network test and network load information.

4.11.2.1 Network Test

From **Main menu->Info-Network->Test**, the network test interface is shown in Figure 4-109.

- **Destination IP**: Please input valid IPV4 address and domain name.
- **Test**: Click it to test the connection with the destination IP address. The test results can display average delay and packet loss rate and you can also view the network status as OK, bad, no connection , etc.
- **Network Sniffer backup**: Please insert USB2.0 device and click the Refresh button, you can view the device on the following column. You can use the dropdown list to select peripheral device. Click Browse button to select the snap path. The steps here are same as preview backup operation.

You can view all connected network adapter names (including Ethernet, PPPoE, WIFI, and 3G), you can click the button on the right panel to begin Sniffer. Click the grey stop button to stop.

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Please note system cannot use Sniffer over several network adapters at the same time.

After the Sniffer begins, you can exit to implement corresponding network operation such as login WEB, monitor. Please go back to Sniffer interface to click stop Sniffer. System can save the packets to the specified path. The file is named after “Network adapter name+time”. You can use software such as Wireshark to open the packets on the PC for the professional engineer to solve complicated problems.

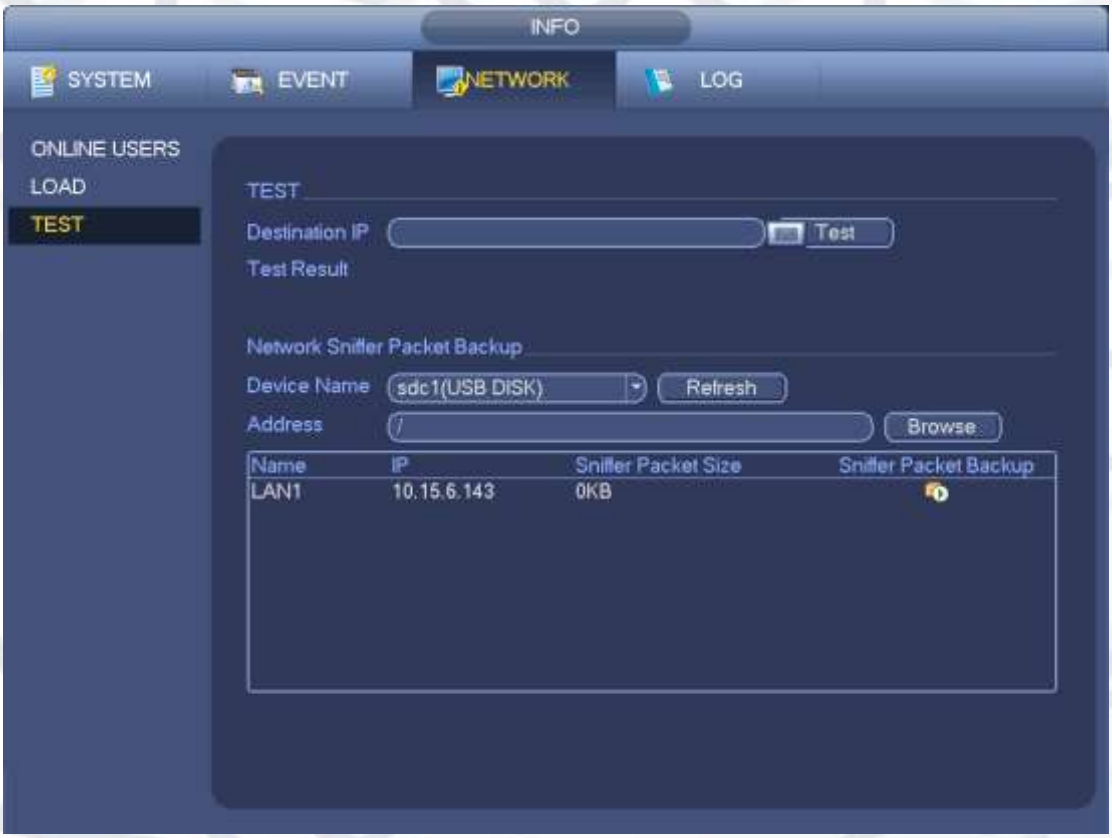

Figure 4-109

4.11.2.2 Network Load

From **Main menu->Info-Network->Load**, network load is shown in Figure 4-110. Here you can view the follow statistics of the device network adapter.

Here you can view information of all connected network adapters. The connection status is shown offline if connection is disconnected. Click one network adapter, you can view the flow statistics such as send rate and receive rate at the top panel

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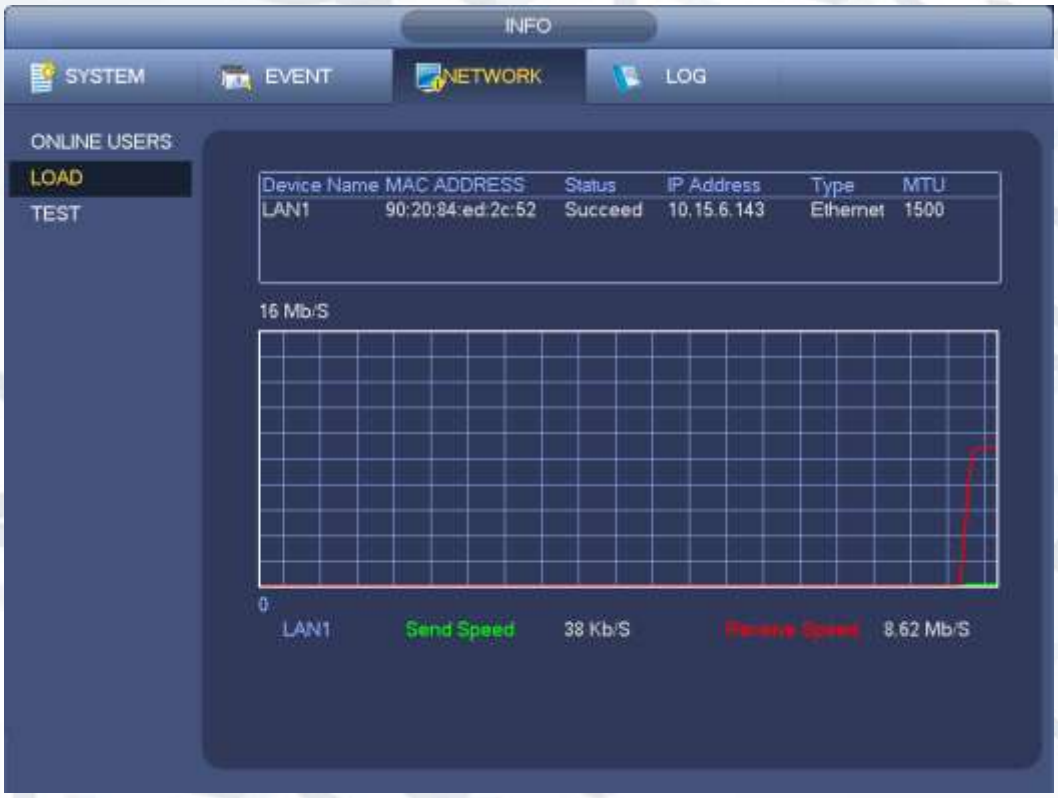

Figure 4-110

4.12 HDD Setup

Here you can view HDD information such as type, status, total capacity, record time , etc.. The operation includes format, resume from error, change HDD property (Read write, Read-only). Here you can also set alarm and HDD storage position.

4.12.1 Format

a) From **Main-menu->Setting->Storage->HDD Manager**, you can go to HDD management interface. See Figure 4-111.

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Figure 4-111

b) Select a HDD and then select format from the dropdown list. Click Execute button.
c) Click OK button to complete the setup. You can see system needs to restart to activate current setup.

4.12.2 HDD Information

Here is to list hard disk type, total space, free space, and status. See Figure 4-112.

○ means current HDD is normal.. - this means there is no HDD.

If disk is damaged, system shows as “?”. Please remove the broken hard disk before you add a new one.

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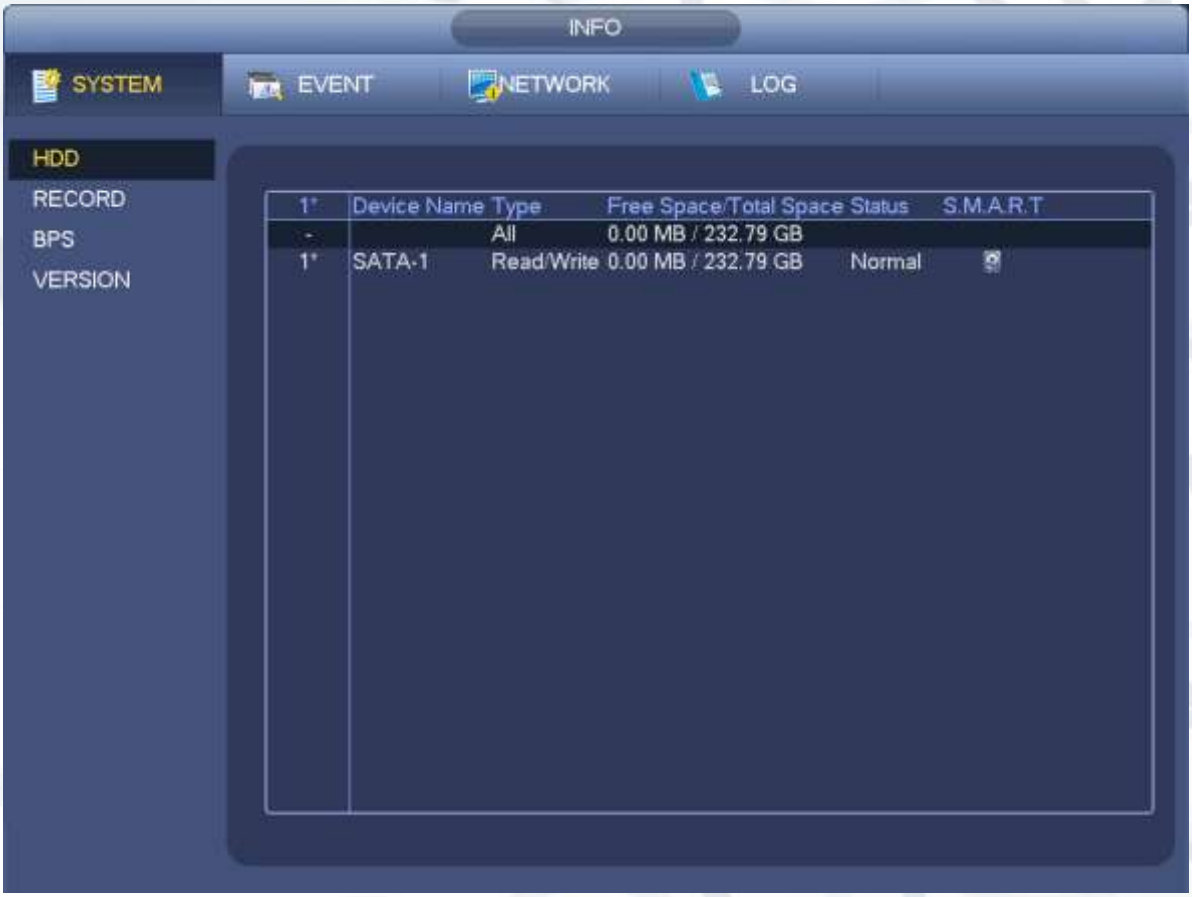

Figure 4-112

In Figure 4-112, click one HDD item, the S.M.A.R.T interface is shown in Figure 4-113.

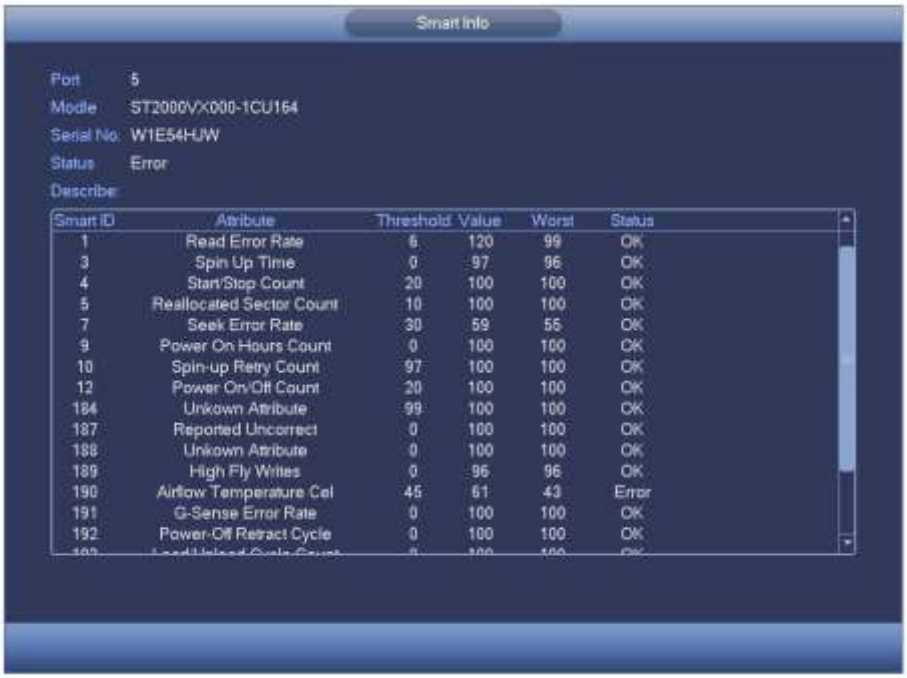
Smart Info
Port 5
Modle ST2000VX000-1CU164
Serial No. W1E54HJW
Status Error
Describe
Smart ID Attribute Threshold Value Worst Status
1 Read Error Rate 6 120 99 OK
3 Spin Up Time 0 97 96 OK
4 Start/Stop Count 20 100 100 OK
5 Reallocated Sector Count 10 100 100 OK
7 Seek Error Rate 30 59 55 OK
9 Power On Hours Count 0 100 100 OK
10 Spin-up Retry Count 97 100 100 OK
12 Power On/Off Count 20 100 100 OK
184 Unkown Attribute 99 100 100 OK
187 Reported Uncorrect 0 100 100 OK
188 Unkown Attribute 0 100 100 OK
189 High Fly Writes 0 96 96 OK
190 Airflow Temperature Cel 45 61 43 Error
191 G-Sense Error Rate 0 100 100 OK
192 Power-Off Retract Cycle 0 100 100 OK

Figure 4-113

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Parameter	Function
SATA	• 1 here means there is 1 HDD. • For different series product, the max HDD amount may vary, • When HDD is working properly, system is shown O. . “_” means there is no HDD.
SN	You can view the HDD amount the device connected to; * means the second HDD is current working HDD.
Type	The corresponding HDD property.
Total space	The HDD total capacity.
Free space	The HDD free capacity.
Status	HDD can work properly or not.
Bad track	Display there is bad track or not.
Page up	Click it to view previous page.
Page down	Click it to view the next page.
View recording time	Click it to view HDD record information (file start time and end time).
View HDD type and capability	Click it to view HDD property, status , etc.,

4.12.3 Advanced

This is to set HDD group, and HDD group setup for main stream, sub stream and snapshot operation.

IMPORTANT
HDD group and quota mode cannot be valid at the same time. System needs to restart once you change the mode here.

The HDD group mode is shown in Figure 4-114.

- **HDD:** Here you can view the HDD amount the device can support.
- **Group**: It lists the HDD Group number of current hard disk.

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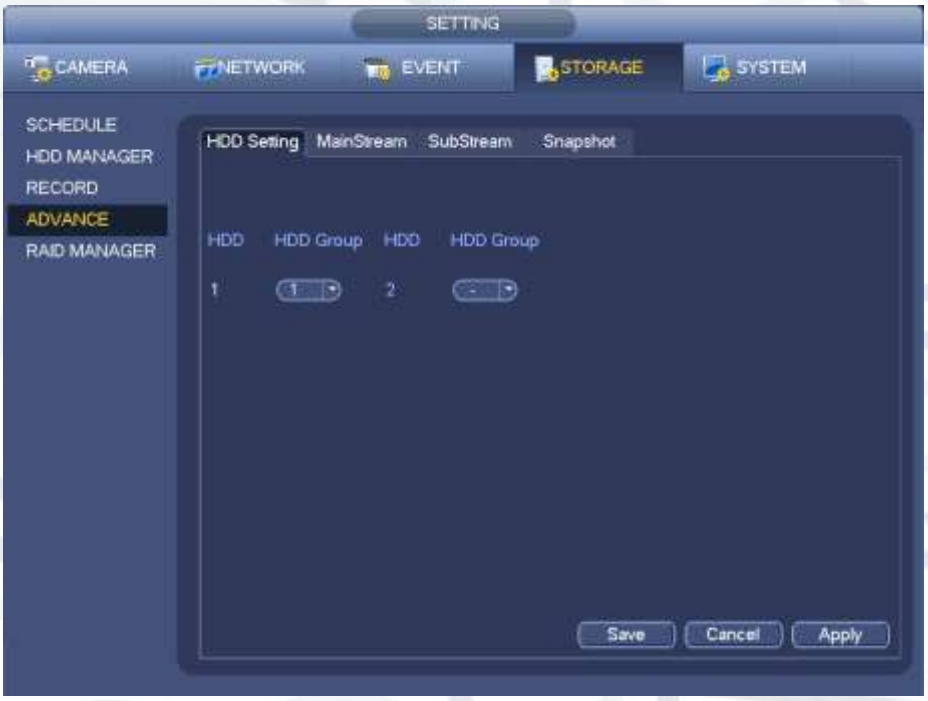

Figure 4-114

Please select the corresponding group from the dropdown list and then click the Apply button.

Click the main stream/sub stream/snapshot button to set corresponding HDD group information. See Figure 4-115 through Figure 4-117.

Figure 4-115

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Figure 4-116

Figure 4-117

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4.12.4 RAID Manager

Important:
Please make sure your purchased product support the RAID function, otherwise you cannot see the following interface.

This is for you to manage RAID HDD. It can display the RAID name, type, free space, total space, status , etc. Here you can add/delete RAID HDD.

Click Add button to select RAID type and then select HDDs, click OK button to add. See Figure 4-118

Click Hot spare disks tab name, you can add the hot spare HDD. See Figure 4-119. Select a hot spare device and then click Delete button. Click Apply button to delete.

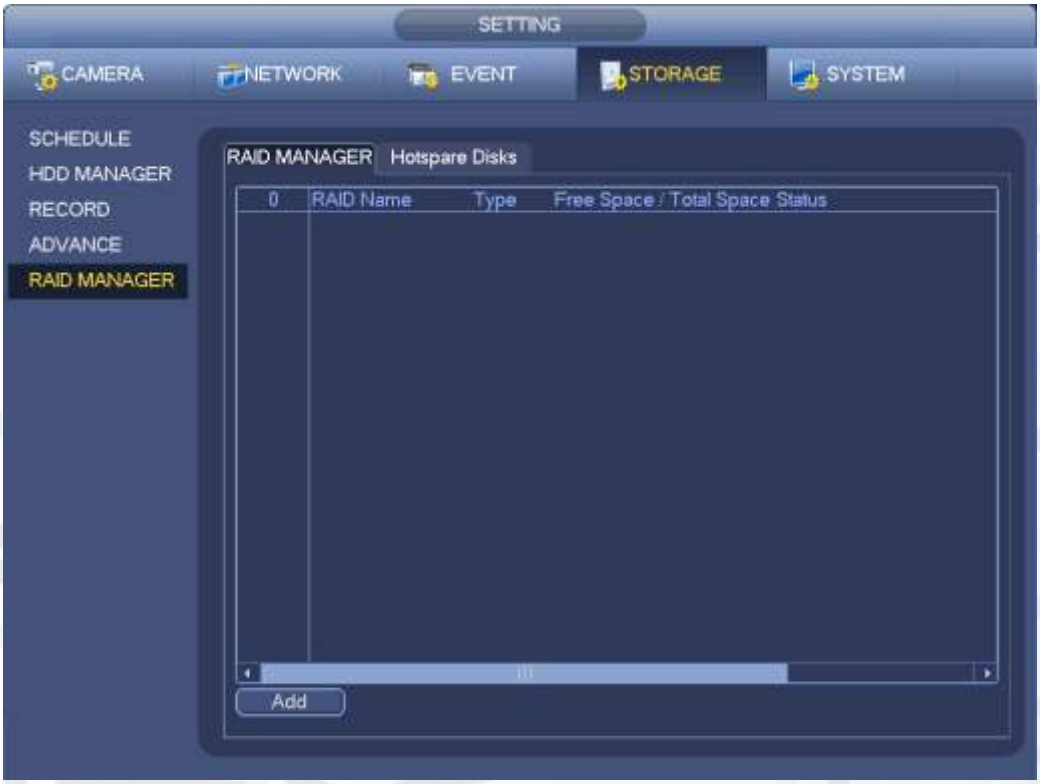

Figure 4-118

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Figure 4-119

4.13 Basic Setups

Set NVR basic setup, device setup and other setups.

4.13.1 Device Setup

From **Main menu->Setting->System->General**, you can go to the general interface. See Figure 4-121.

- **Pack duration**: This is for you to specify record duration. The value ranges from 0 to 120 minutes. Default value is 60 minutes.
- **Device ID**: Please input a corresponding device name here.
- **Device No**: When you are using one remote control (not included in the accessory bag) to control several NVRs, you can give a name to each NVR for your management.
- **Language**: System supports various languages: Chinese (simplified), Chinese (Traditional), English, Italian, Japanese, French, Spanish (All languages listed here are optional. Slight difference may be found in various series.)
- **Video standard**: There are two formats: NTSC and PAL.
- **HDD full**: This is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
- **Pack duration**: This is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

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- **Realtime play**: This is to set playback time you can view in the preview interface. The value ranges from 5 to 60 minutes.
- **Auto logout**: This is for you to set auto logout interval once login user remains inactive for a specified time. Value ranges from 0 to 60 minutes.
- **Navigation bar**: Check the box here, system displays the navigation bar on the interface.
- **IPC Time Sync**: You can input an interval here to synchronize the NVR time and IPC time.
- **Startup wizard**: Once you check the box here, system will go to the startup wizard directly when the system restarts the next time. Otherwise, it will go to the login interface.
- **Mouse property**: You can set the double click speed via dragging the slide bard. You can Click Default button to restore default setup.

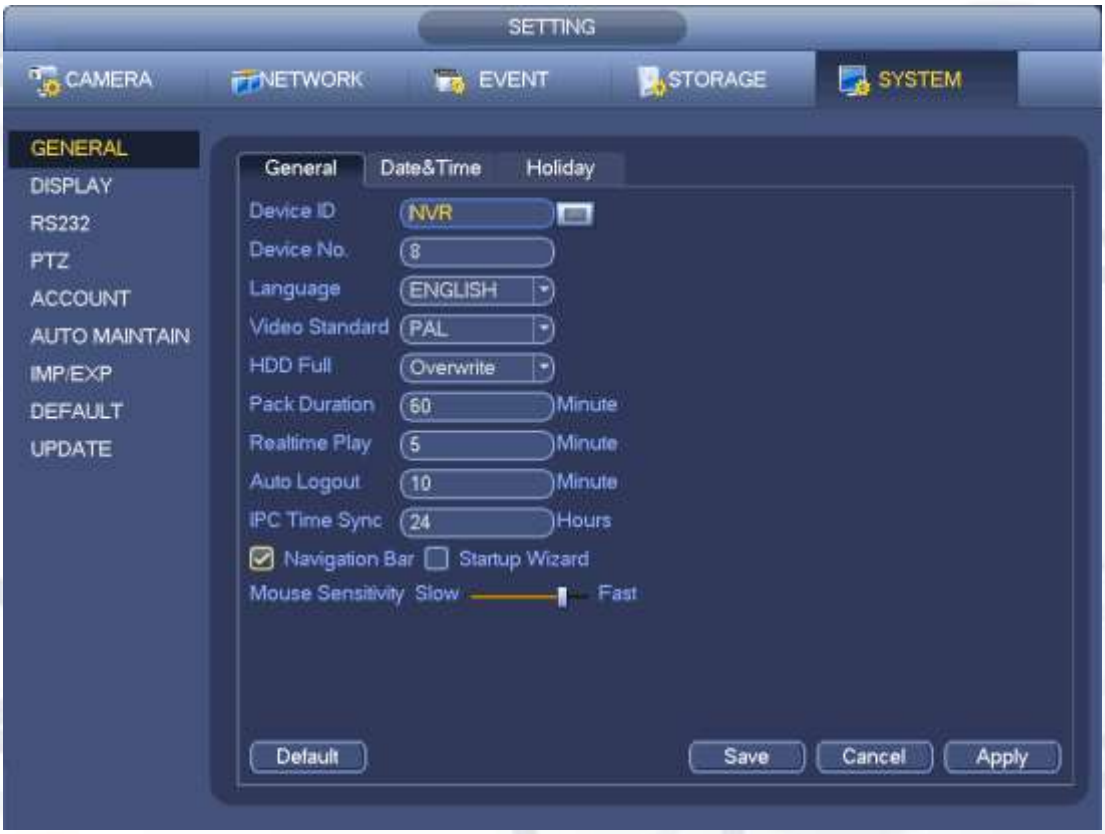

Figure 4-120

4.13.2 Data and Time

From **Main menu->Setting->System->General**, you can go to the general interface. See Figure 4-121.

- **System time**: This is for you to set system time
- **Date format**: There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- **Date separator**: There are three denotations to separate date: dot, beeline and solidus.
- **DST**: Here you can set the DST time and date by week or by date. Please enable DST function and then select setup mode. Please input start time and end time and click Save button.
- **Time format**: There are two types: 24-hour mode or 12-hour mode.
- **NTP:** This is to set NTP server, port and interval.

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Note:
Since system time is very important, do not modify time casually unless there is a must!
Before your time modification, please stop record operation first!

After completing all the setups please click save button, system goes back to the previous menu.

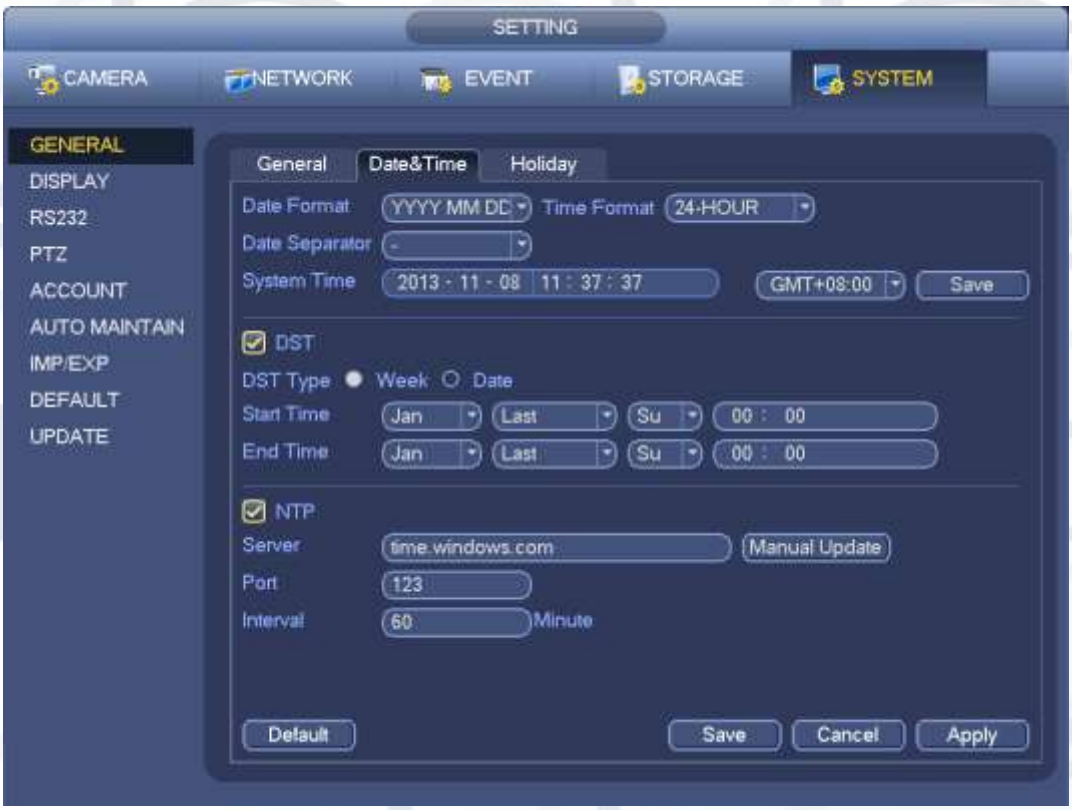

Figure 4-121

4.13.3 Holiday

Holiday setup interface is shown in Figure 4-122. Click Add new holiday button, you can input new holiday information. See Figure 4-123. Here you can set the holiday name, repeat mode and start/end time.

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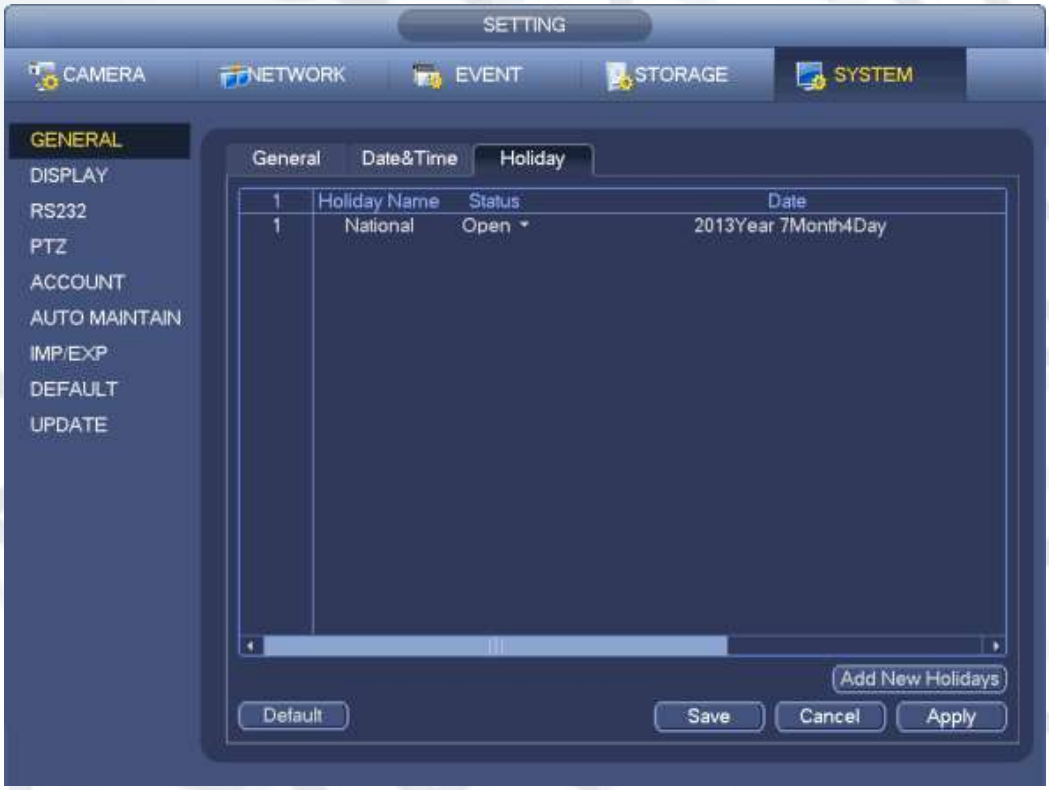

Figure 4-122

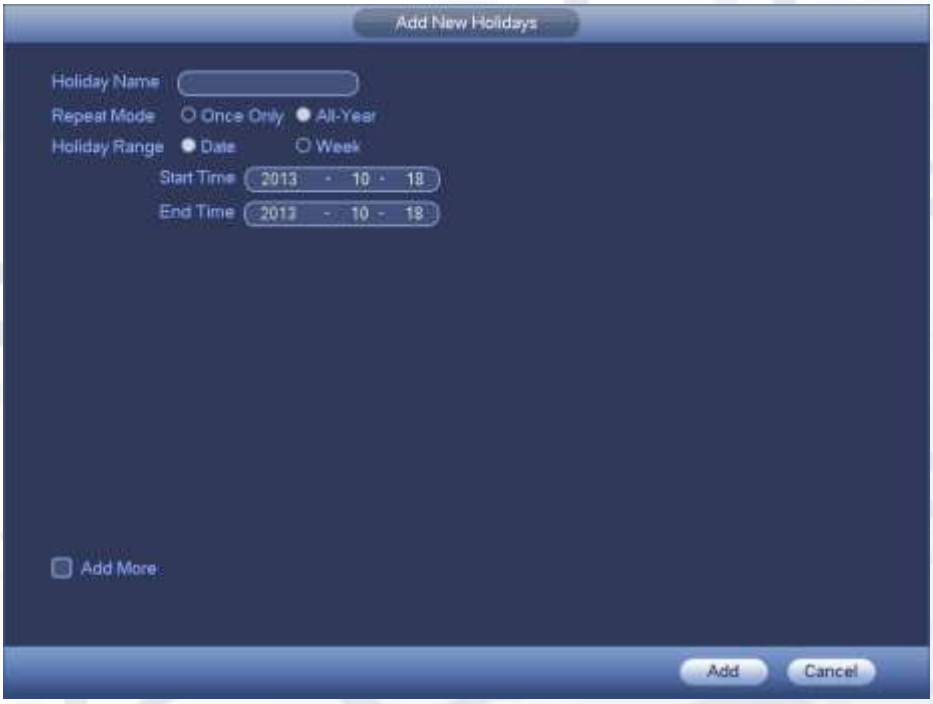

Figure 4-123

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4.14 Device Maintenance and Manager

4.14.1 System Info

4.14.1.1 Version

From **Main menu->Info->System->version**, you can go to version interface.
This is for you to view some version information. See Figure 4-124. **Please note the following figure for reference only.**

- Channel
- Alarm in
- Alarm out
- System version
- Build Date
- Web
- Serial number

Figure 4-124

4.14.1.2 BPS

This is for you to view current video bit rate (kb/s) and resolution. See Figure 4-125.

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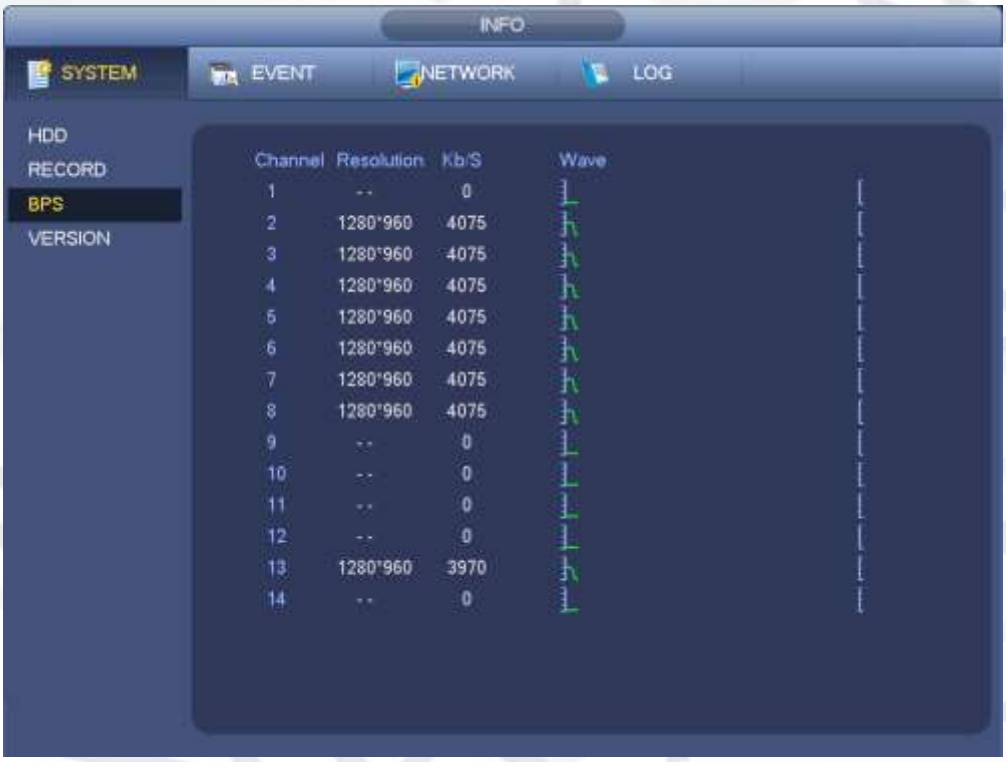

Figure 4-125

4.14.1.3 Online User

This is for you manage online users connected to your NVR. See Figure 4-126.

You can click button to disconnect or block a user if you have the proper system rights to do so. The system searches for any any newly added or deleted user in each five seconds and refresh the list automatically.

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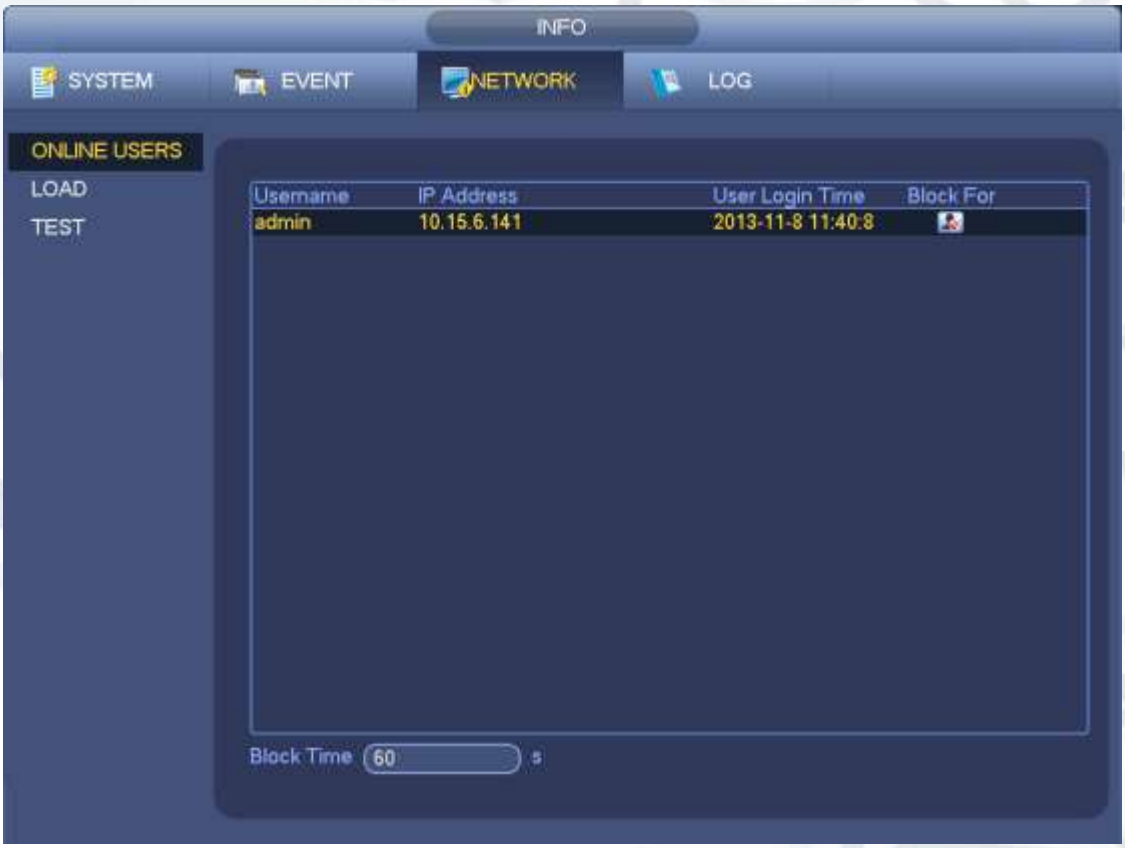

Figure 4-126

4.14.1.4 Remote Device Information

From **Main menu->info-Event**, here you can view the channel status of the remote device, connection log , etc.. See Figure 4-127.

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Figure 4-127

4.14.1.5 Remote

4.14.1.5.1 Device Status

This is where you can view the IPC status of the corresponding channel such as motion detect, video loss, tampering, alarm, etc.. See Figure 4-128.

- **IPC status**: : Front-end does not support. : Front-end supports. : There is alarm event from current front-end.
- **Connection status**: : Connection succeeded. : Connection failed.
- **Refresh**: Click it to get latest front-end channel status.

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Figure 4-128

4.14.1.5.2 Firmware

This is to view channel, IP address, manufacturer, type, system version, SN, video input, audio input, external alarm, etc. See Figure 4-129.

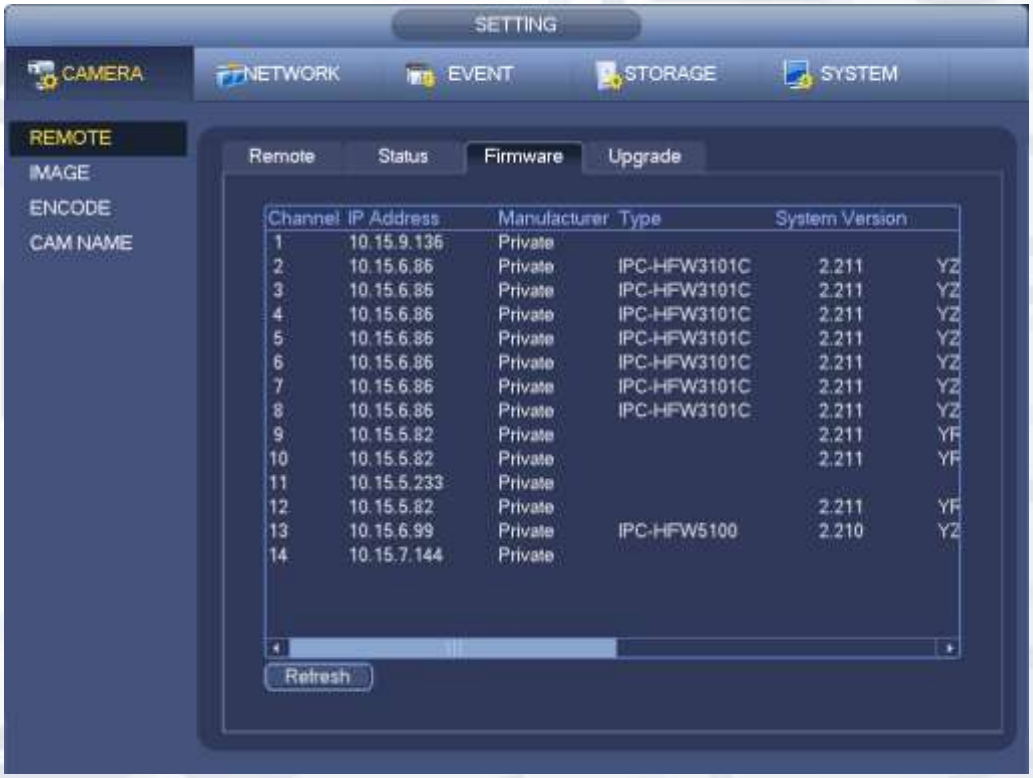

Figure 4-129

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4.14.2 Log

From **Main menu->Info->Log**, you can go to the following interface. See Figure 4-130.

- **Start time/end time**: Pleased select start time and end time, then click search button. You can view the log files in a list. System max displays 100 logs in one page. It can max save 1024 log files. Please use page up/down button on the interface or the front panel to view more.

Tip:
Double click a log item to view its detailed information. See Figure 4-131.

Click PgUp/PgDn to view more logs.

INFO
SYSTEM
EVENT
NETWORK
LOG
LOG
Start Time 2013 - 11 - 07 00 : 00 : 00
End Time 2013 - 11 - 08 00 : 00 : 00
Types All
Search
19 Time Event Play Details
6 2013-11-07 18:01:01 Channel12 User logged in.
7 2013-11-07 18:01:01 Channel 4 User logged in.
8 2013-11-07 18:01:01 Channel 5 User logged in.
9 2013-11-07 18:01:01 Channel 6 User logged in.
10 2013-11-07 18:01:01 Channel 7 User logged in.
11 2013-11-07 18:01:01 Channel 8 User logged in.
12 2013-11-07 18:01:20 Channel 9 User logged in.
13 2013-11-07 18:01:20 Channel13 User logged in.
14 2013-11-07 18:01:20 Channel 2 User logged in.
15 2013-11-07 18:01:20 Channel 3 User logged in.
16 2013-11-07 20:13:01 User logged in.<10.15.6.122>
17 2013-11-07 20:13:01 User logged in.<10.15.6.122>
18 2013-11-07 20:14:01 User logged out.<admin>
19 2013-11-07 20:14:01 User logged out.<admin>
PgUp
PgDn
1/1(Current Page/Total Page)
Go To
1
Page(s)
Backup
Clear

Figure 4-130

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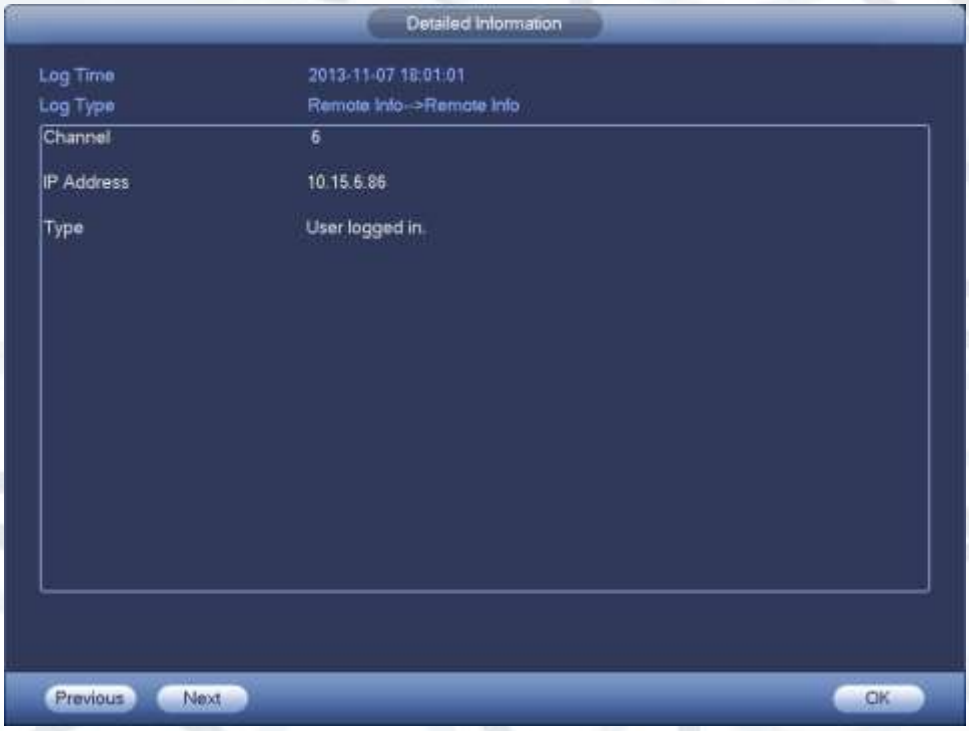

Figure 4-131

4.14.3 Account

This is for you to implement the account management. See Figure 4-132 and Figure 4-133. Here you can:

- Add new user
- Modify user
- Add group
- Modify group
- Modify password.

For account management please note:

- For the user account name and the user group, the string max length is 6-byte. The backspace in front of or at the back of the string is invalid. There can be backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- The default user amount is 64 and the default group amount is 20. System account adopts two-level management: group and user. No limit to group or user amount.
- For group or user management, there are two levels: admin and user.
- The user name and group name can consist of eight bytes. One name can only be used once. There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right.
- Hidden user “default” is for system interior use only and cannot be deleted. When there is no login user, hidden user “default” automatically login. You can set the some rights such as monitor for this user so that you can view some channel view without login.
- One user should belong to one group. User rights cannot exceed group rights.
- About reusable function: this function allows multiple users use the same account to login.

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After all the setups are complete please click save button, system goes back to the previous menu.

Figure 4-132

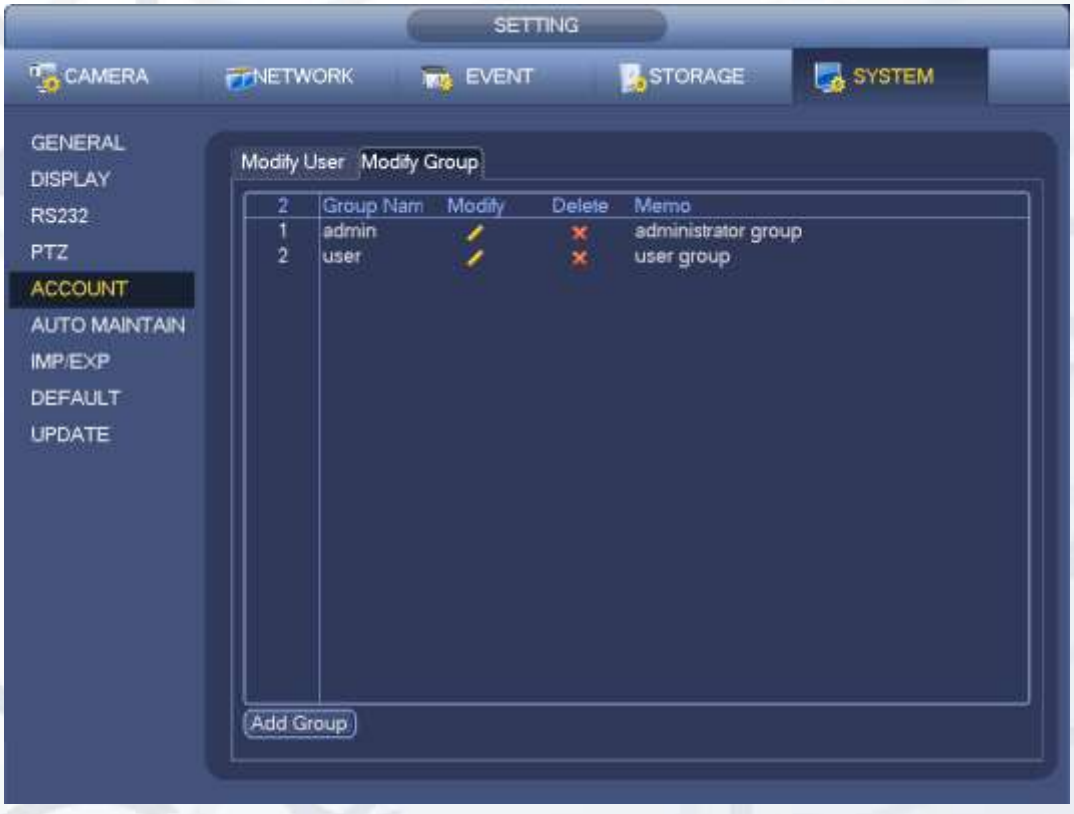

Figure 4-133

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4.14.3.1 Add/Modify Group

Click the add group button, the interface is shown below. See Figure 4-134.

Here you can input group name and then input some memo information if necessary.

There are many different functions on the device that rights can be assigned to groups to allow them to modify/operate, such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device , etc.

The modify group interface is similar to the Figure 4-134.

Figure 4-134

4.14.3.2 Add/Modify User

Click add user button, the interface is shown in Figure 4-135.

Please input the user name, password, and select the group it belongs to from the dropdown list. Then you can check the corresponding rights for current user.

For convenient user management, usually we recommend the general user right is lower than the admin account.

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The modify user interface is similar to Figure 4-135.

Figure 4-135

4.14.4 Update

From **Main menu->Setting->Info->Update**, you can go to the following interface. See Figure 4-136.

1. Insert USB device that contains the upgrade file.
2. Click Start button and then select the .bin file.
3. You can see the corresponding dialogue box after the update process is complete.

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Figure 4-136

4.14.5 Default

You can restore factory default setup to fix some problems when the device is running slowly. Configuration error occurred.

From **Main menu->Setting->System->Default**, you can go to the default interface. See Figure 4-137.

Click default icon, system pops up a dialogue box. You can highlight to restore factory default setup.

- All
- Camera
- Network
- Event
- Storage
- System

Please highlight icon to select the corresponding function. After all the setups please click OK button, system goes back to the previous menu.

WARNING!
AFTER YOU HAVE USED THE DEFAULT FUNCTION, SOME YOUR CUSTOMISED SETUP MAY BE LOST FOREVER! PLEASE THINK TWICE BEFORE YOU BEGIN THIS OPERATION!

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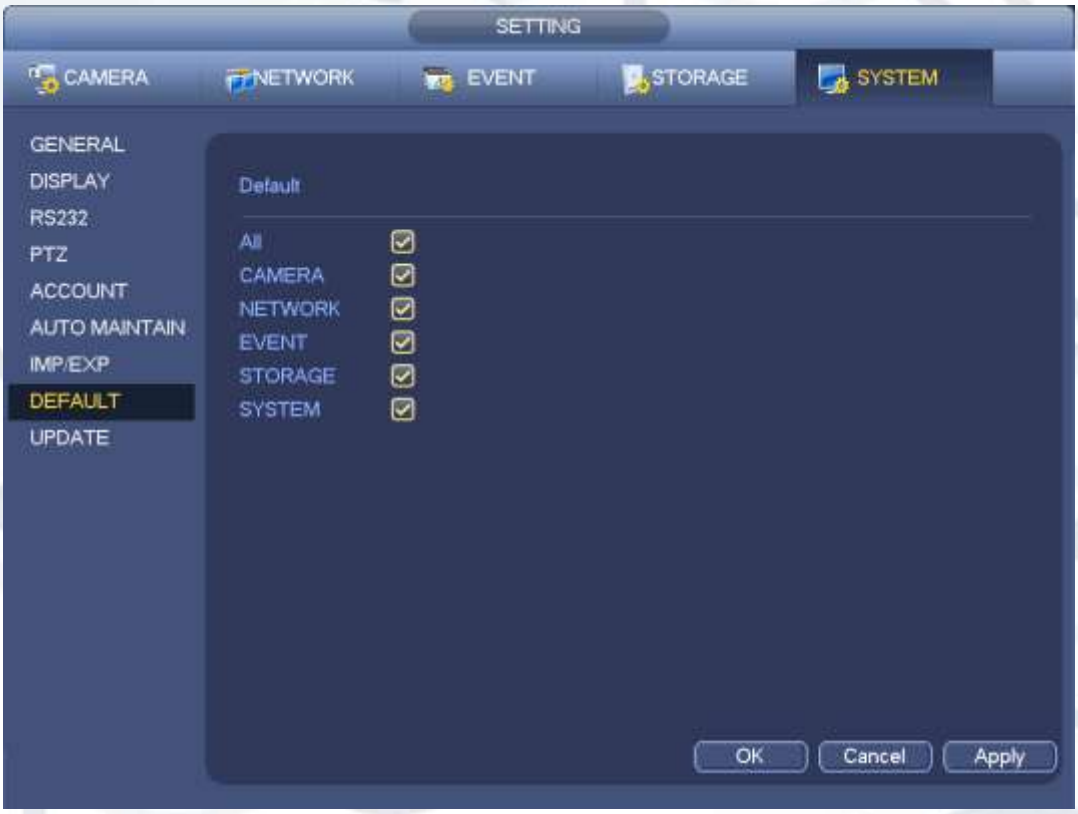

Figure 4-137

4.14.6 RS232

From **Main menu->Setting->System->RS232**, RS232 interface is shown below. There are five items. See Figure 4-138.

- **Function:** There are various devices for you to select. Console is for you to use the COM or mini-end software to upgrade or debug the program. The control keyboard is for you to control the device via the special keyboard. Transparent COM (adapter) is to connect to the PC to transfer data directly. Protocol COM is for card overlay function. Network keyboard is for you to use the special keyboard to control the device. PTZ matrix is to connect to the peripheral matrix control.
- **Baud rate:** You can select proper baud rate.
- **Data bit**: You can select proper data bit. The value ranges from 5 to 8.
- **Stop bit:** There are three values: 1/1.5/2.
- **Parity:** there are five choices: none/odd/even/space mark.

System default setup is:

- **Function:** Console
- **Baud rate**:115200
- **Data bit:** 8
- **Stop bit:** 1
- **Parity:** None

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After completing all the setups please click save button, system goes back to the previous menu.

Figure 4-138

4.14.7 Auto Maintain

Here you can set the auto-reboot time and auto-delete old files. You can set the system to delete the files for the specified days. See Figure 4-139.

You can select proper setup from dropdown list.

After all the setups please click save button, system goes back to the previous menu.

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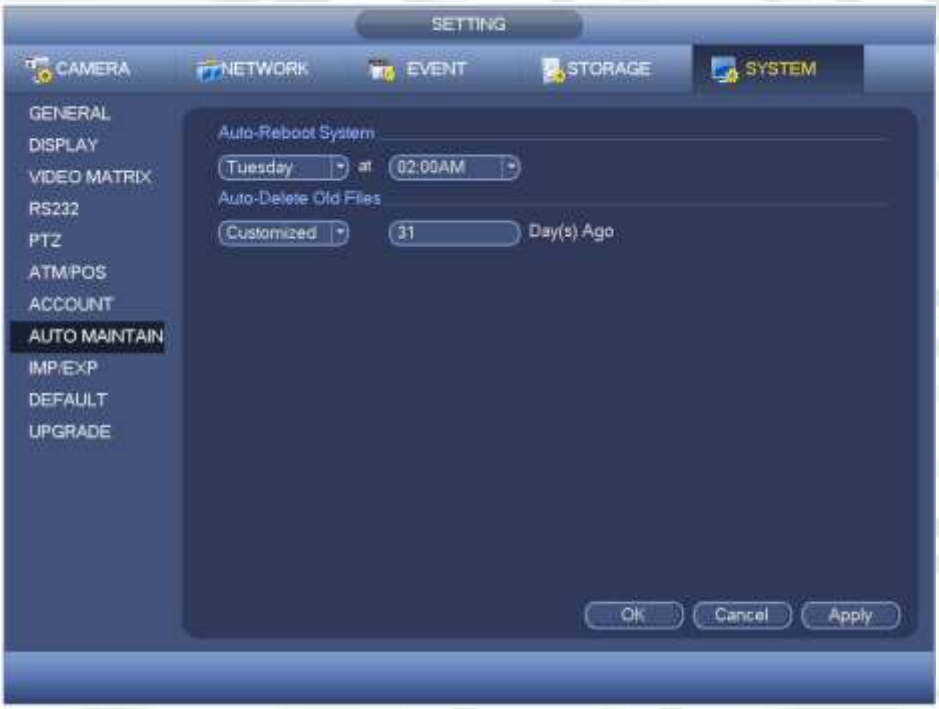

Figure 4-139

4.14.8 Logout /Shutdown/Restart

From **Main menu->Operation->Shutdown**, you can see an interface shown in Figure 4-140.

- Shutdown: System shuts down and turns off power.
- Logout: Log out menu. You need to input password when you login the next time.
- Restart: reboot device.

If you shut down the device, there is a process bar for your reference, system waits for 3 seconds and then shut down (You cannot cancel).

Please note, sometimes you need to input the proper password to shut down the device.

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Figure 4-140

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5 Web Operation

5.1 General Introduction

The device's web provides a channel monitor menu tree, search, alarm setup, system setup, PTZ control and monitor window.

5.1.1 Preparation

Before log in, please make sure:

- Network connections are correct.
- NVR and PC network setup are correct. Please refer to network setup (**main-menu->setting->network**)
- Use initiate a network ping**: ***.***.***.*** using the NVR IP address, to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open the web browser and then input NVR IP address.
- System can automatically download latest web control and the new version can overwrite the previous one.
- If you want to un-install the web control, please run *uninstall webrec2.0.bat*. Or you can go to C:\Program Files\webrec to remove the folder. Please note, before you un-install, please close all web pages, otherwise the un-installation might cause an error to occur.
- Current series product supports various browsers such as Safari, firebox browser, Google browser. Device only supports 1-channel monitors on an Apple based operating system.

About PoE address setup, operation and allocation.

1. Insert PoE

After you connect the PoE, the device may try to set a corresponding IP address from the Switch network adapter. At the start, the system will try to set via an ARP ping. It then uses the DHCP if it finds that the DHCP is enabled. After successfully setting the IP address, system may use the Switch to send out a broadcast. The system will think the connection is OK when there is any response made. Now the system will try to login the newly found IPC. When you check the interface, you will see the corresponding digital channel is active. You will also see a small PoE icon at the top left corner, which will allow you to view the PoE channel, PoE port information , etc. from the connection list of the remote device interface (Chapter **Error! Reference source not found.**). For the IP search list, you need to click the IP search to display or refresh.

2. Remove PoE

After you remove the PoE, you will see the corresponding digital channel becomes idle (disabled). On the remote device interface, This is removed from the connected list. For the IP search list, you need to click the 'IP Search' button to refresh.

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3. After you connect the PoE, the system follows the principles listed below to map a channel.

    a) If this is the first time the PoE has been connected, the system can map it to the first idle channel. After the mapping, the channel can memorize the MAC address of the IPC. This is a <Channel>---<IPC mac> map. If current channel does not connect to the other device, system can memorise the current MAC address, otherwise it can refresh to the newly added device and memorise the <PoE port>---<Channel>.
    b) If This is your second time the PoE has been connected, the system can check the saved MAC address according to <Channel>---<IPC mac> map to make sure current IPC has connected correctly or not. If system finds the previous information and the channel is idle, system can map it to the previously used channel. Otherwise system goes to the next step.
    c) Thirdly, according to the <PoE port>---<Channel> map, the system may know the previous mapping channel of current PoE port. System can select the current channel if This is free. Otherwise, it goes to the next step:
    d) The system goes to find the first idle channel it finds.

Generally speaking, once you connect the PoE, the system will follow the steps listed above to find the channel available.

System can pop up a dialogue box for you to select a channel to overwrite. The title of the pop-up interface is the name of the current operational PoE port. In this interface, All PoE channels will become grey and you will not be able to select them.

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5.1.2 Log in

Open the web browser and then input the NVR IP address in to the address bar.

For example, if your NVR IP address is **192.168.1.108**, then please input **http:// 192.168.1.108** in the web browser address bar. See Figure 6-1.

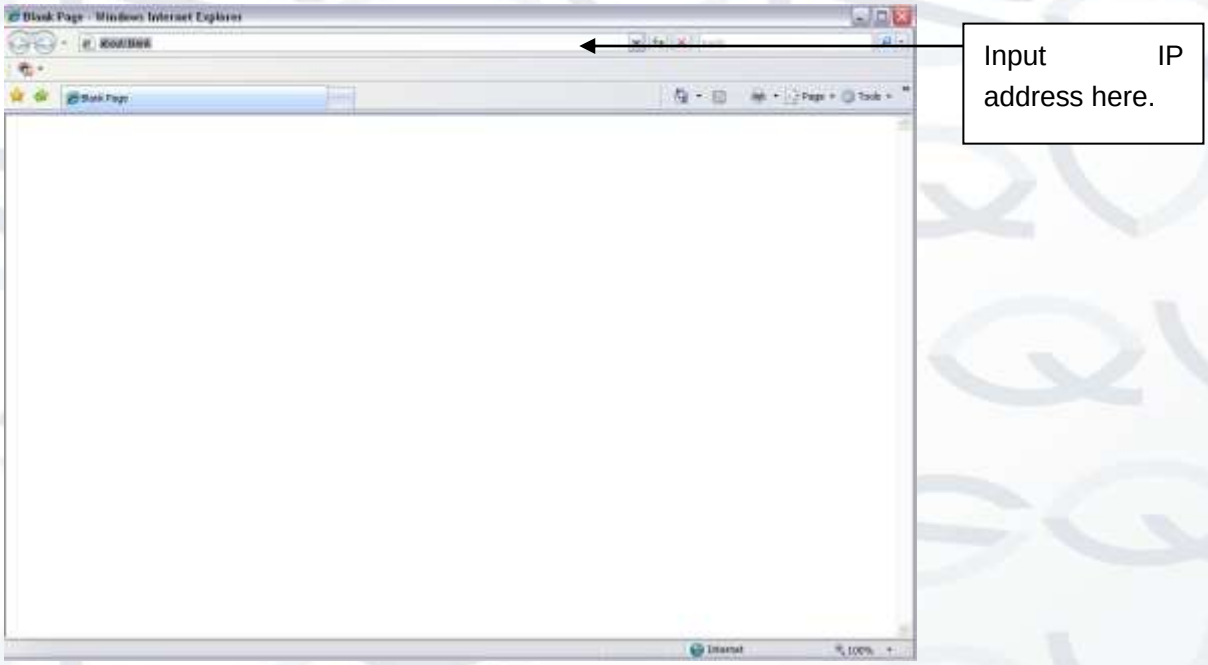

Figure 6-1 IE Interface

The system will pop up warning information to ask you whether to install '**webrec.cab'** control or not. Please click yes button.

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If you can't download the ActiveX file, please modify your settings as follows. See Figure 6-2.

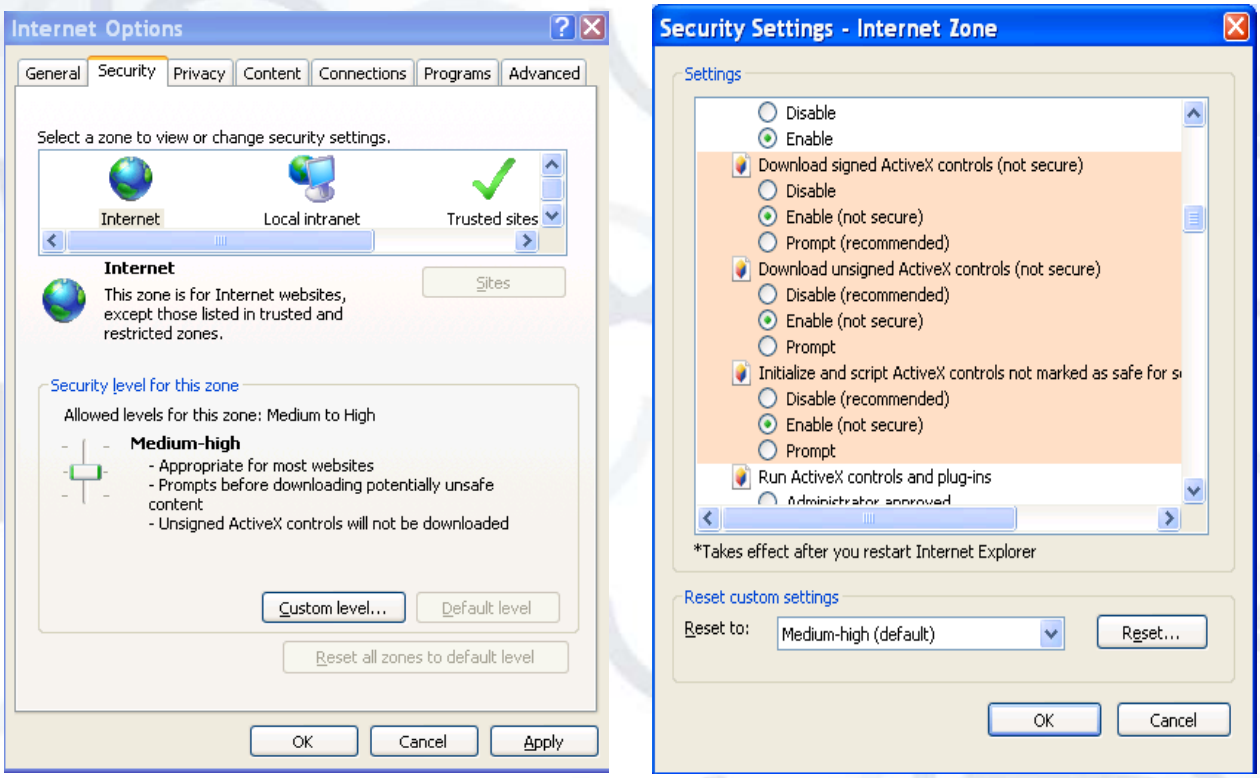

Figure 6-2 IE Safety Setup

After installation, the interface is shown below. See Figure 6-3.

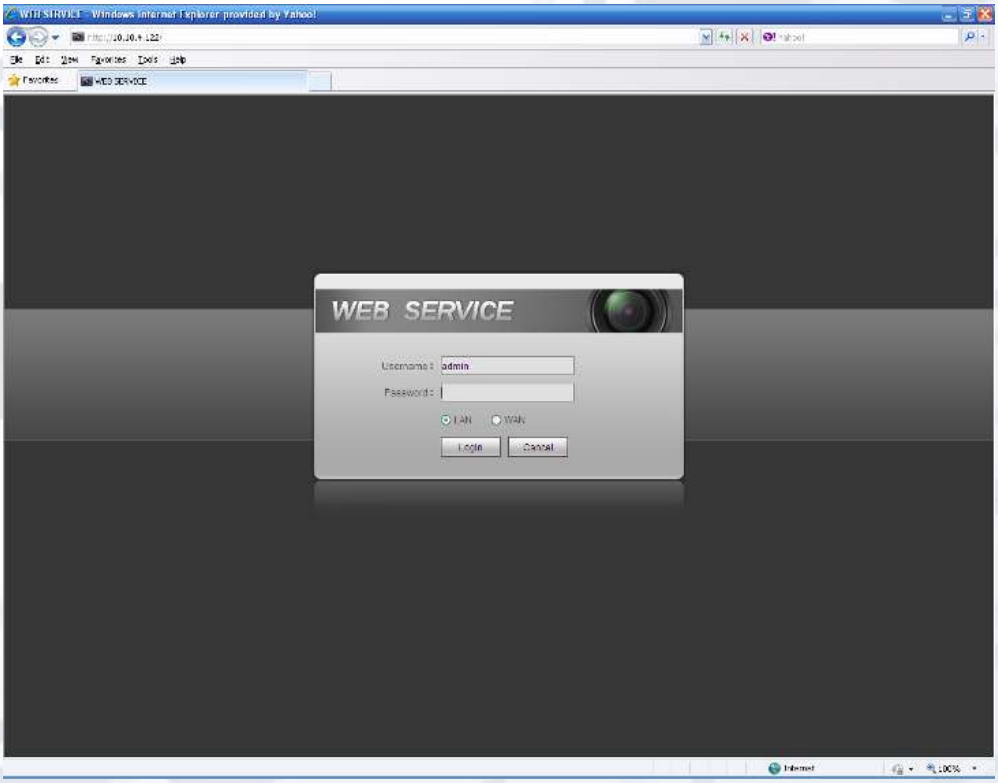

Figure 6-3 Login interface

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Please input your user name and password.
Default factory name is **admin** and password is **admin**.

Note: For security reasons, please modify your password after you first login.

5.2 LAN Mode

After you logged in, you will see the main LAN window. See **Error! Reference source not found.**.

This main window can be divided into the following sections:

- **Section 1**: there are six function buttons: Live（chapter **Error! Reference source not found.**）, Setup (chapter 5.8), Info (Chapter 5.9), Playback (chapter 5.10), Alarm (chapter 5.11), and Logout (chapter 5.12).

- **Section 2**: There are monitor channels successfully connected to the NVR.

Please refer to Figure 5-1 for main stream and extra stream switch information.

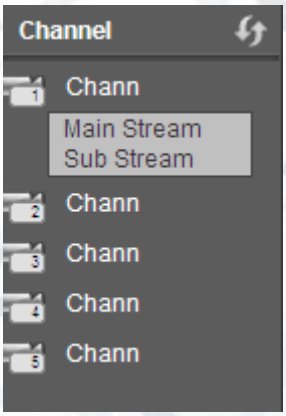

Figure 5-1

- **Section 3**: **Open all**. The Open all button is to enable/disable all real-time monitor channels. Here you can select main stream/sub stream too. See Figure 5-2.

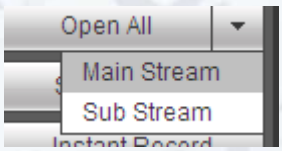

Figure 5-2

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- **Section 4**: **Start Talk button**.

You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode. There are four options: DEFAULT，G711a，G711u and PCM. See Figure 5-3.

After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. Please note, if the audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

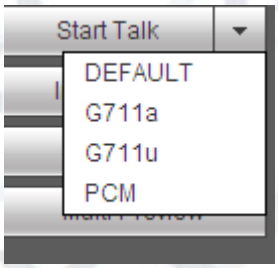

Figure 5-3

- **Section 5: Instant record button**. Click it, the button becomes yellow and system begins manual record. See Figure 5-4. Click it again, system restores previous record mode.

Figure 5-4

- **Section 6: Local play button.**

The Web can playback the saved (Extension name is **dav**) files in the PC-end.

Click local play button, system pops up the following interface for you to select local play file. See Figure 5-5.

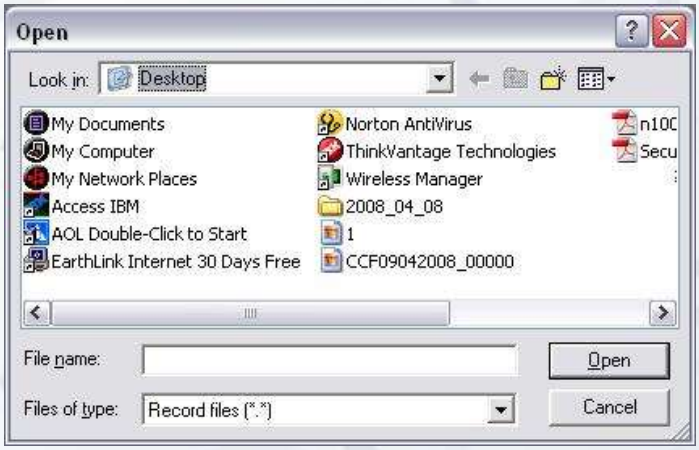

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Figure 5-5

- **Section 7：Zero-channel encoding**. Please refer to chapter 5.6 for detailed information.
- **Section 8: PTZ operation panel**. Please refer to chapter 5.4 for detailed information.
- **Section 9: Image setup and alarm setup**. Please refer to chapter 5.5 for detailed information.
- Section 10: From the left to the right ,you can see video quality/fluency/ full screen/1-window/4-window/6-window/8-window/9-window/13-window/16-window/20-window/ 25-window/36-window. You can set video fluency and real-time feature priority.

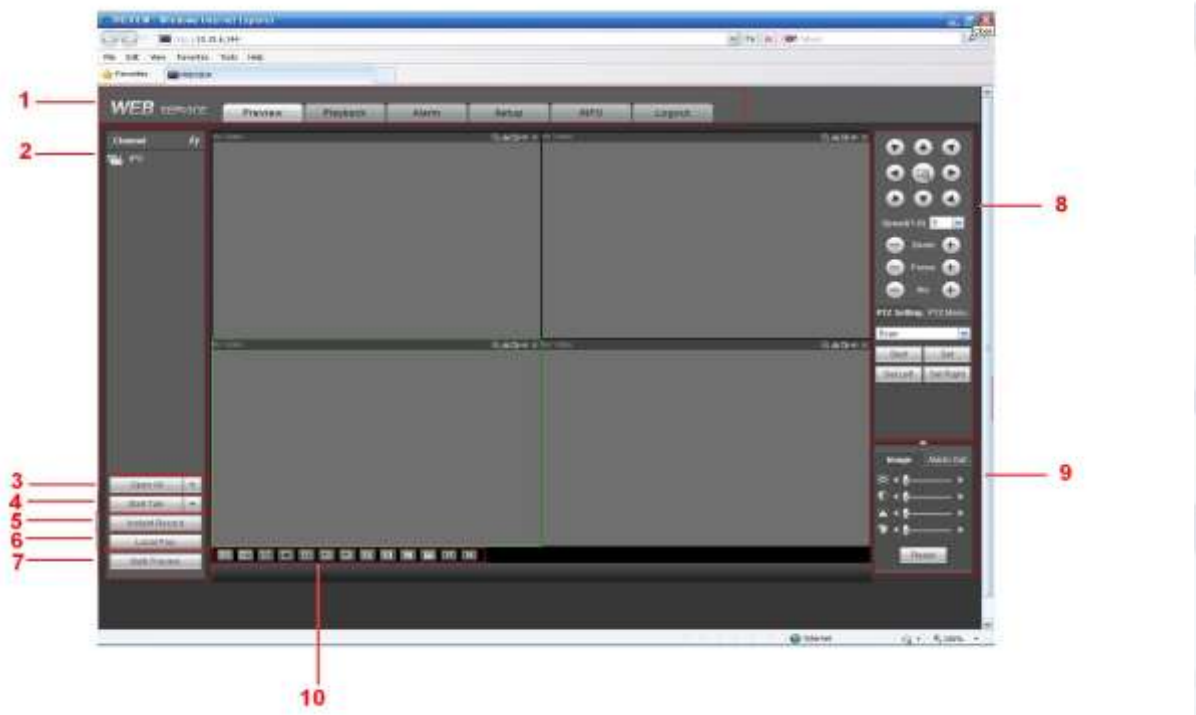

Figure 5-6

5.3 Real-time Monitor

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

On the top left corner, you can view device IP(172.11.10.11), channel number(1), network monitor bit stream(2202Kbps) and stream type(M=main stream, S=sub stream). See Figure 5-7.

Figure 5-7

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On the top right corner, there are six unction buttons. See Figure 5-8.

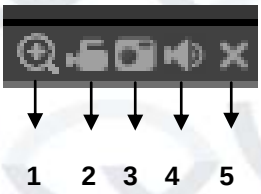

Figure 5-8

- **1: Digital zoom**: Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- **2: Local record**. When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder **RecordDownload** to view the recorded file.
- **3: Snapshot picture**. You can take snapshots from important video footage. All images are memorised in system client folder **PictureDownload** (default).
- **4: Audio**: Turn on or off audio. (It has no relationship with system audio setup)
- **5: Close video.**

5.4 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please refer to chapter 0).

There are eight direction keys. In the middle of the eight direction keys, there is a 3D intelligent positioning key.

Click 3D intelligent positioning key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can control the PTZ automatically.

Please refer to the following sheet for PTZ setup information:

Parameter	Function
Scan	• Select Scan from the dropdown list. • Click Set button, you can set the scan left and right limit. • Use direction buttons to move the camera to you desired location and then click left limit button. Then move the camera again and then click right limit button to set a right limit.
Preset	• Select Preset from the dropdown list. • Turn the camera to the corresponding position and Input the preset value. Click Add button to add a preset.

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Parameter	Function
Tour	• Select Tour from the dropdown list. • Input preset value in the column. Click Add preset button, you have added one preset in the tour. • Repeat the above procedures you can add more presets in one tour. • Or you can click delete preset button to remove one preset from the tour.
Pattern	• Select Pattern from the dropdown list. • You can input pattern value and then click Start button to begin PTZ movement such as zoom, focus, iris, direction, etc. Then you can click Add button to set one pattern.
Aux	• Please input the corresponding aux value here. • You can select one option and then click AUX on or AUX off button.
Light and wiper	You can turn on or turn off the light/wiper.

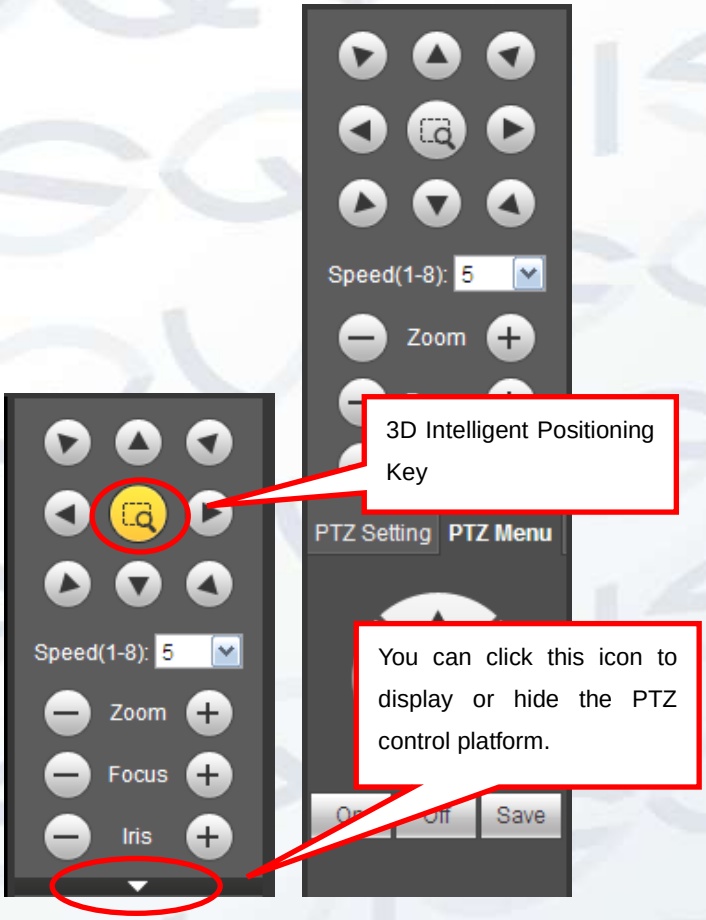

Figure 5-9

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5.5 Image/Alarm-out

Select one monitor channel video and then click Image button in section 9, the interface is shown as Figure 5-10.

5.5.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click Reset button to restore system default setup.

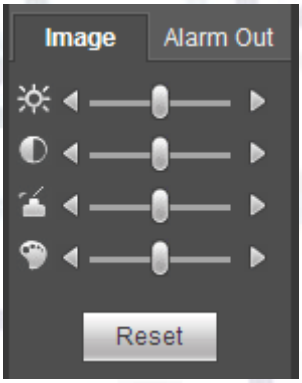

Figure 5-10

5.5.2 Alarm output

Here you can enable or disable the alarm signal of the corresponding port. See Figure 5-11.

Figure 5-11

5.6 Zero-channel Encode

Select a window and then click zero-channel encode button, the interface is shown as below. See Figure 5-12.

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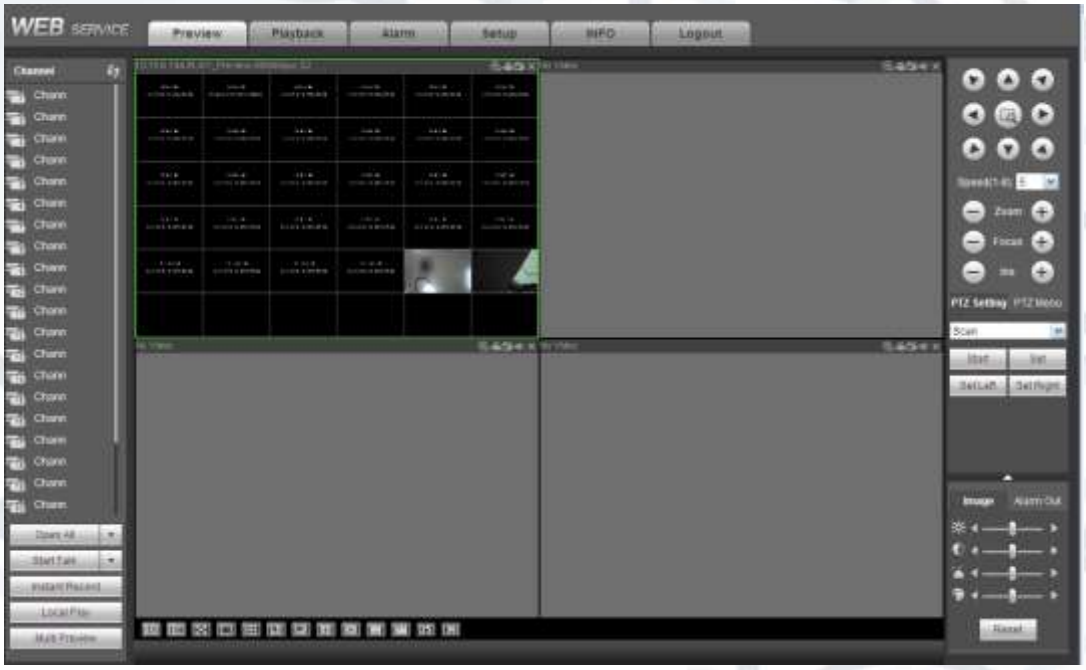

Figure 5-12

5.7 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 5-13.

Figure 5-13

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Please refer to the following contents for LAN and WAN login difference.

1. In the WAN mode, system opens the main stream of the first channel to monitor by default. The open/close button on the left pane is null.

2. You can select different channels and different monitor modes at the bottom of the interface. See Figure 5-14.

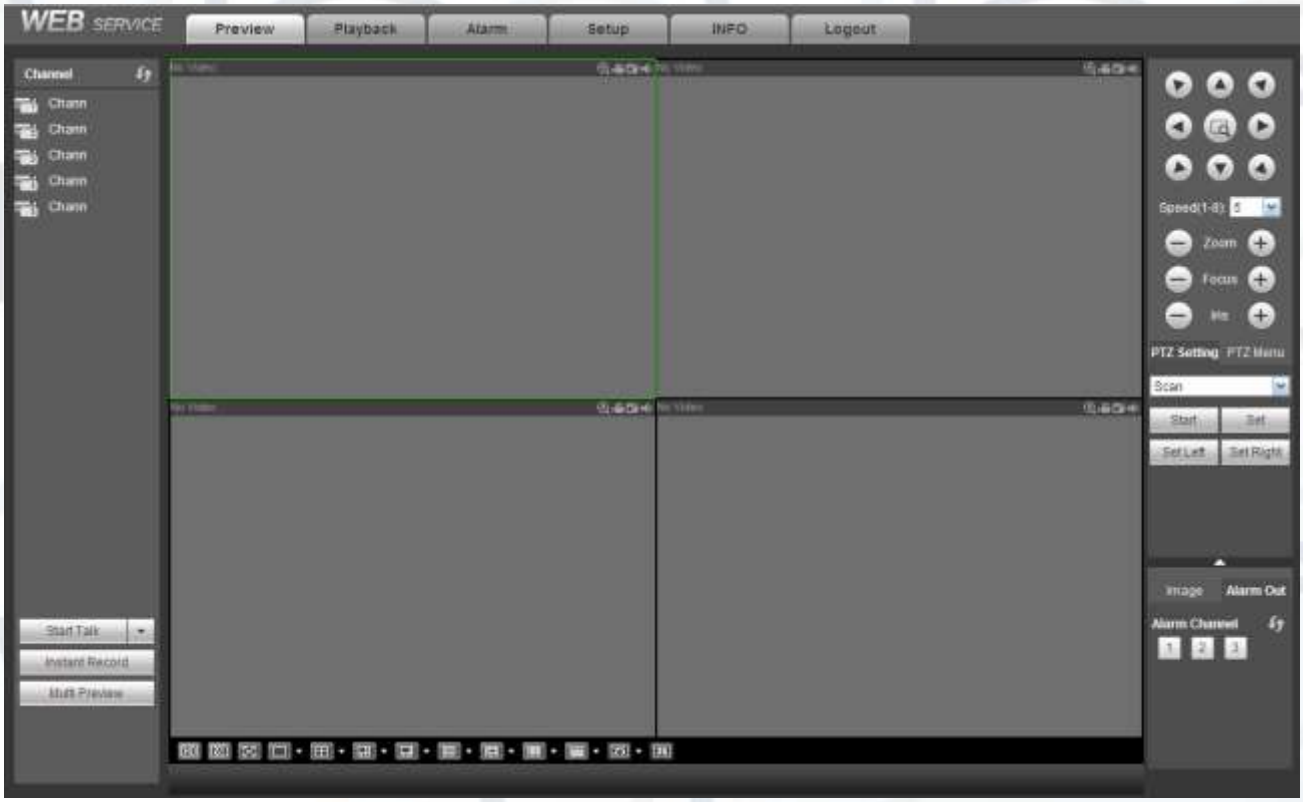

Figure 5-14

IMPORTANT

The window display mode and the channel number are by default. For example, for the 16-channel, the max window split mode is 16.

3. Multiple-channel monitor, system adopts extra stream to monitor by default. Double click one channel, system switches to single channel and system uses main stream to monitor. You can view there are two icons at the left top corner of the channel number for you reference. M stands for main stream. S stands for sub stream (extra stream).

4. If you login via the WAN mode, system does not support alarm activation to open the video function in the Alarm setup interface.

IMPORTANT

- **For multiple-channel monitor mode, system adopts extra an stream to monitor by default. You cannot modify this manually. All channels are trying to synchronise. Please note the synchronisation effect still depends on your network environment.**

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- **For bandwidth consideration, system cannot support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. This is to enhance search speed.**

5.8 Setup

5.8.1 Camera

5.8.1.1 Remote Device

Remote device interface is shown as below. See Figure 5-15.

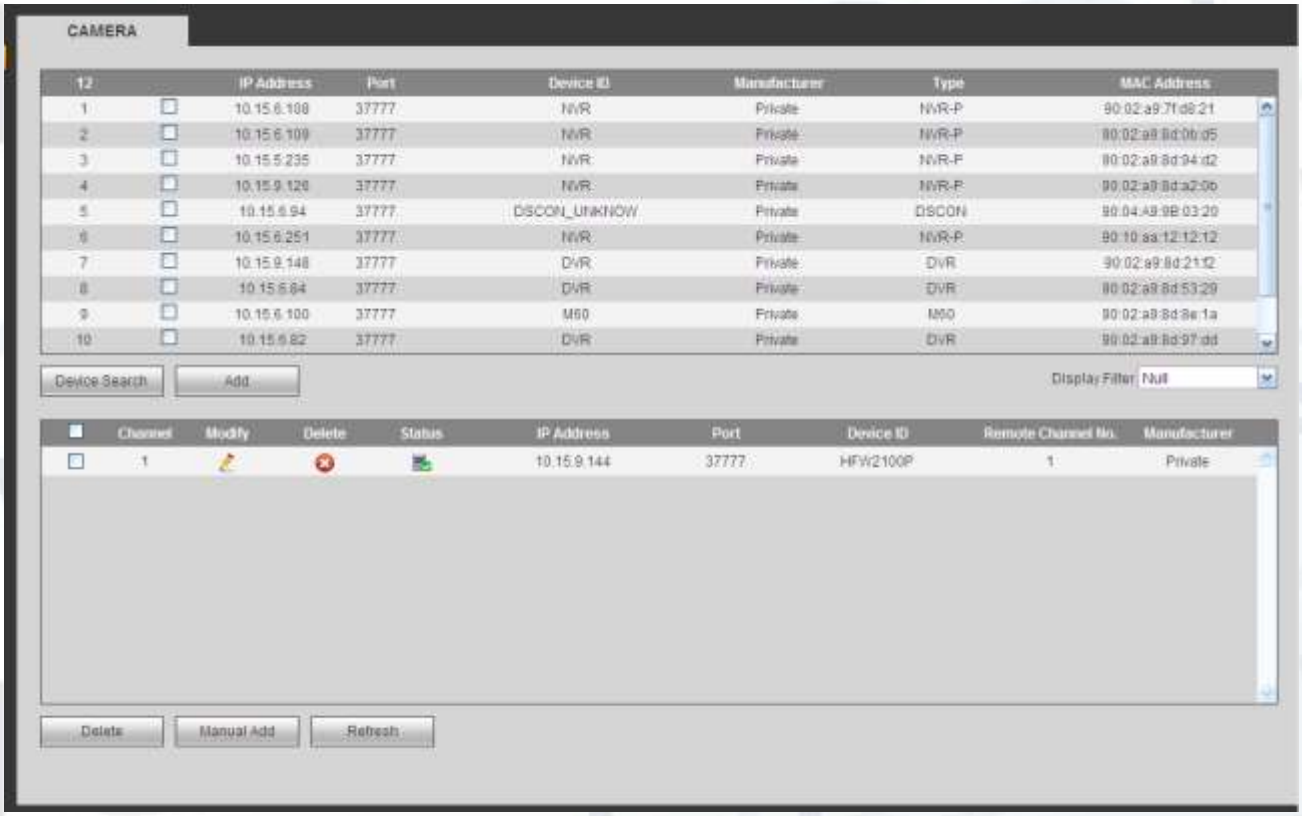

Figure 5-15

Please refer to the following sheet for log parameter information:

Parameter	Function
Device search	Click Device search button, you can view the searched device information on the list. It includes device IP address, port, device name, manufacturer and type.
Add	Select a device in the list and then click Add button, system can connect the device automatically and add it to the Added device list. Or you can double click one item in the list to add a device.
Modify	Click or any device in the Added device list, you can change the corresponding channel setup.

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Parameter	Function
Delete	Click , you can delete the remote connection of the corresponding channel.
Connection status	: Connection succeeded. : Connection failed.
Delete	Select a device in the Added device list and then click Delete button, system can disconnect the device and remove it from the Added device list.
Manual Add	Click it, the interface is shown as in Figure 5-16. Here you can add network camera manually. You can select a channel from the dropdown list (Here only shows disconnection channel.) **Notes:** ● System supports manufactures such as Panasonic, Sony, Dynacolor, Samsung, AXIS, Arecont, Dahua and Onvif standard protocol. ● If you do not input IP address here. System uses default IP 192.168.0.0 and system does not connect to this IP. ● Cannot add two devices at the same time. Click OK button here, system only connect to the corresponding device of current channel.

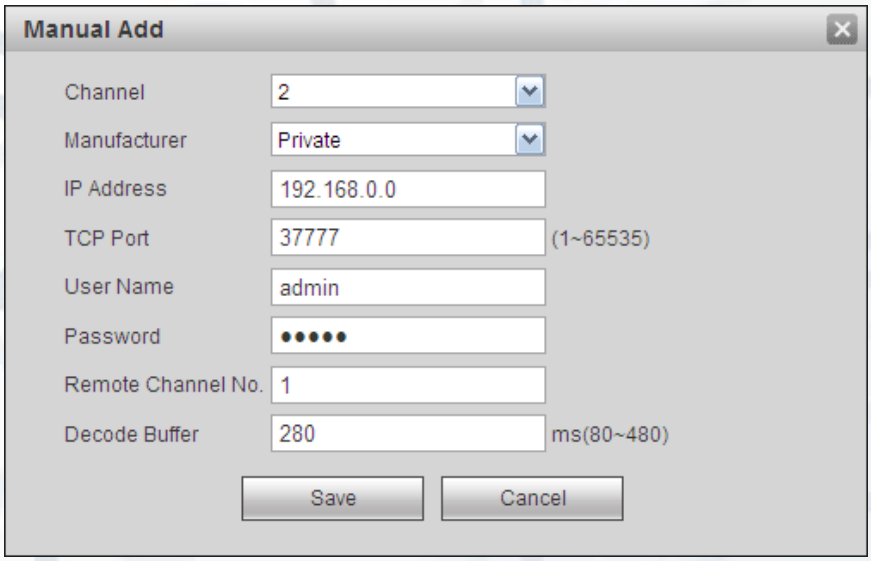

Figure 5-16

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5.8.1.2 Image

Here you can view device property information. The setups become valid immediately after you set. See Figure 5-17.

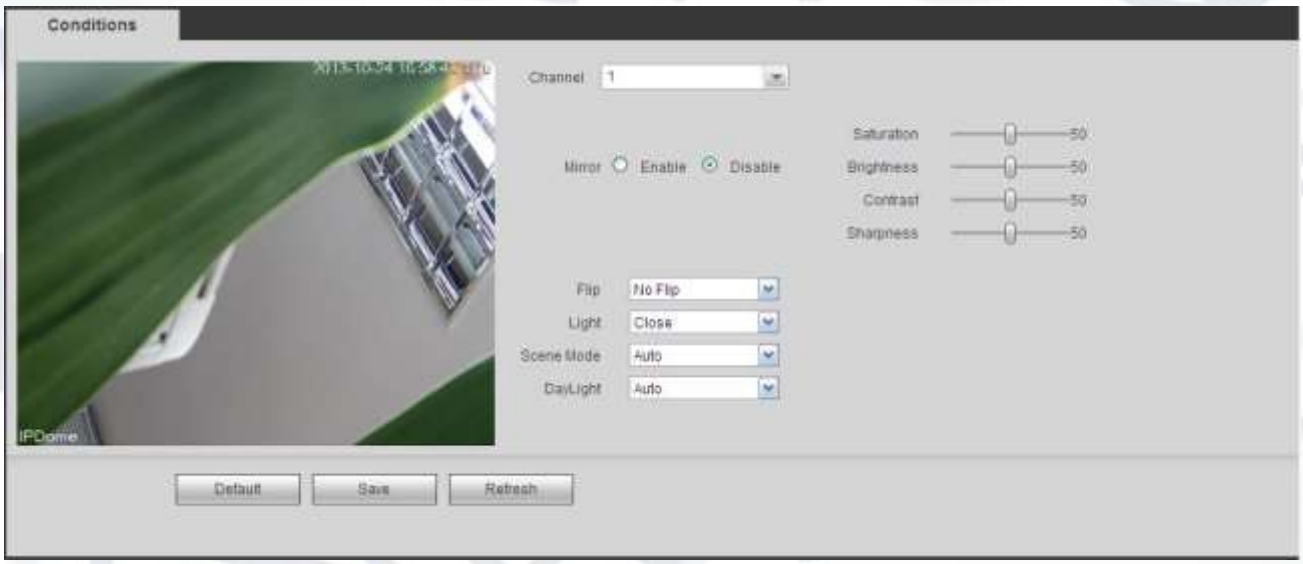

Figure 5-17

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Period	It divides one day (24 hours) to two periods. You can set different hue, brightness, and contrast for different periods.
Hue	This is to adjust monitor video brightness and darkness level. The default value is 50. The bigger the value is, the large the contrast between the bright and dark section is and vice versa.
Brightness	This is to adjust monitor window brightness. The default value is 50. The larger the number is, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100.The recommended value ranges from 40 to 60.
Contrast	This is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the

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		bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation		This is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number is, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Gain		The gain adjust is to set the gain value. The smaller the value is, the low the noise is. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear.
White level		This is to enhance video effect.
Color mode		It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast , etc will adjust accordingly.
Auto Iris		This is to enable/disable auto iris function.
Flip		This is to switch video up and bottom limit. This function is disabled by default.
Mirror		This is to switch video left and right limit. This function is disabled by default.
BLC Mode	BLC	The device auto exposures according to the environments situation so that the darkest area of the video is cleared
	WDR	For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time. The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds record video.
	HLC	After you enabled HLC function, the device can lower the brightness of the brightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video.
	Off	This is to disable the BLC function. Please note this function is disabled by default.
Profile		This is to set the white balance mode. It has effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable , etc to adjust the video to the best quality. ● Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the

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	vide color is proper. • Sunny: The threshold of the white balance is in the sunny mode. • Night: The threshold of the white balance is in the night mode. • Customised: You can set the gain of the red/blue channel. The value reneges from 0 to 100.
Day/Night	This is to set device color and the B/W mode switch. The default setup is auto. • Color: Device outputs the color video. • Auto: Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not.) • B/W: The device outputs the black and white video. • Sensor: This is to set when there is peripheral connected IR light.

5.8.1.3 Encode

5.8.1.3.1 Encode

The encode interface is shown as below. See Figure 5-18.

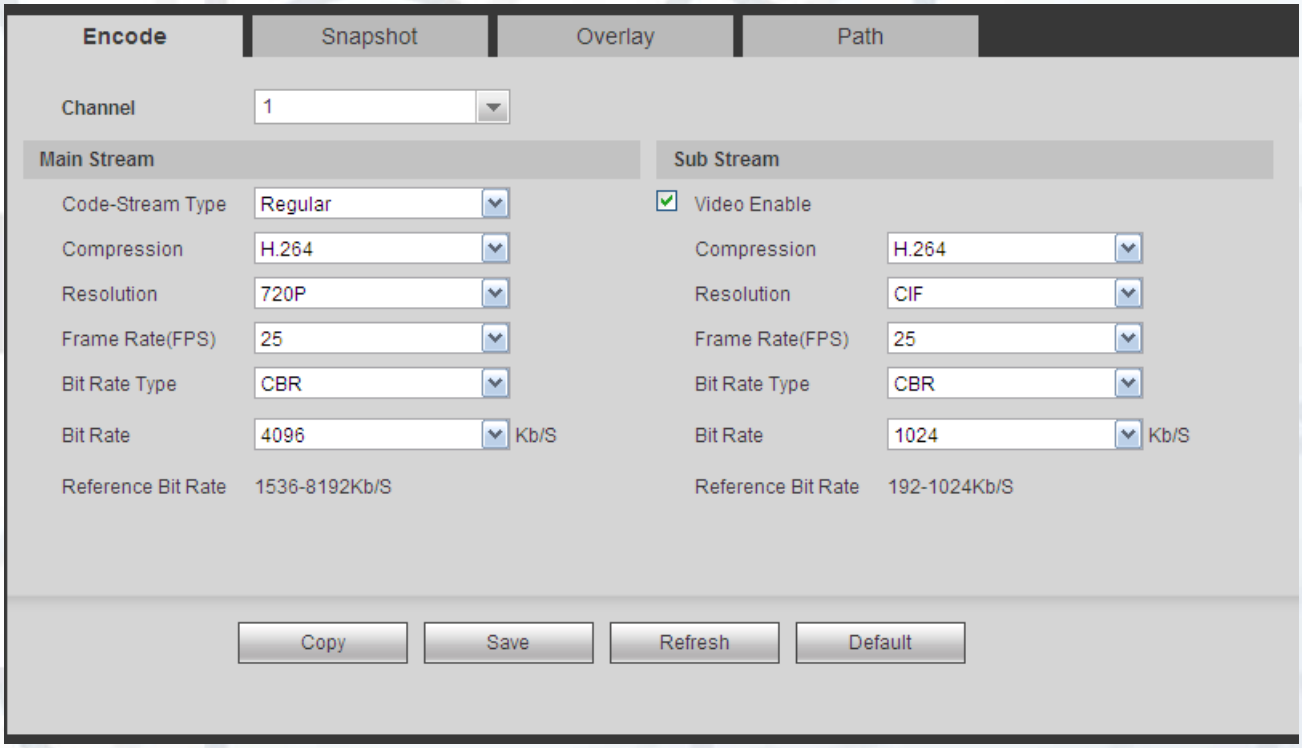

Figure 5-18

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Code stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events. System supports active control frame function (ACF). It allows you to record in different frame rates. For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
Compression	The main bit stream supports H.264. The extra stream supports H.264, MJPG.
Resolution	The resolution here refers to the capability of the network camera.
Frame Rate	PAL：1～25f/s；NTSC：1～30f/s.
Bit Rate	• Main stream: You can set bit rate here to change video quality. The large the bit rate is, the better the quality is. Please refer to recommend bit rate for the detailed information. • Extra stream: In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode.
Reference bit rate	Recommended bit rate value according to the resolution and frame rate you have set.
I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.
Watermark enable	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.

5.8.1.3.2 Snapshot

The snapshot interface is shown as in Figure 5-19.

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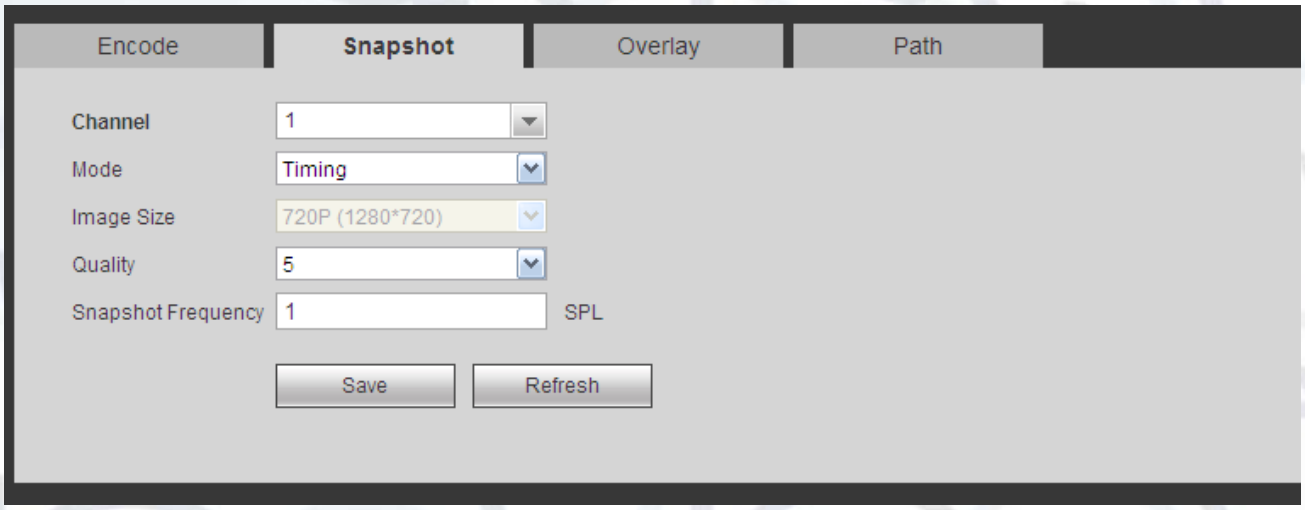

Figure 5-19

Please refer to the following sheet for detailed information:

Parameter	Function
Snapshot type	There are two modes: Regular (schedule) and Trigger. • Regular snapshot is valid during the specified period you set. • Trigger snapshot only is valid when motion detect alarm, tampering alarm or local activation alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	This is to set the image quality. There are six levels.
Interval	This is to set snapshot frequency. The value ranges from 1s to 7s. Or you can set customised value. The max setup is 3600s/picture.
Copy	Click it will allow you to copy the current channel setup to other channel(s).

5.8.1.3.3 Video Overlay

The video overlay interface is shown as in Figure 5-20.

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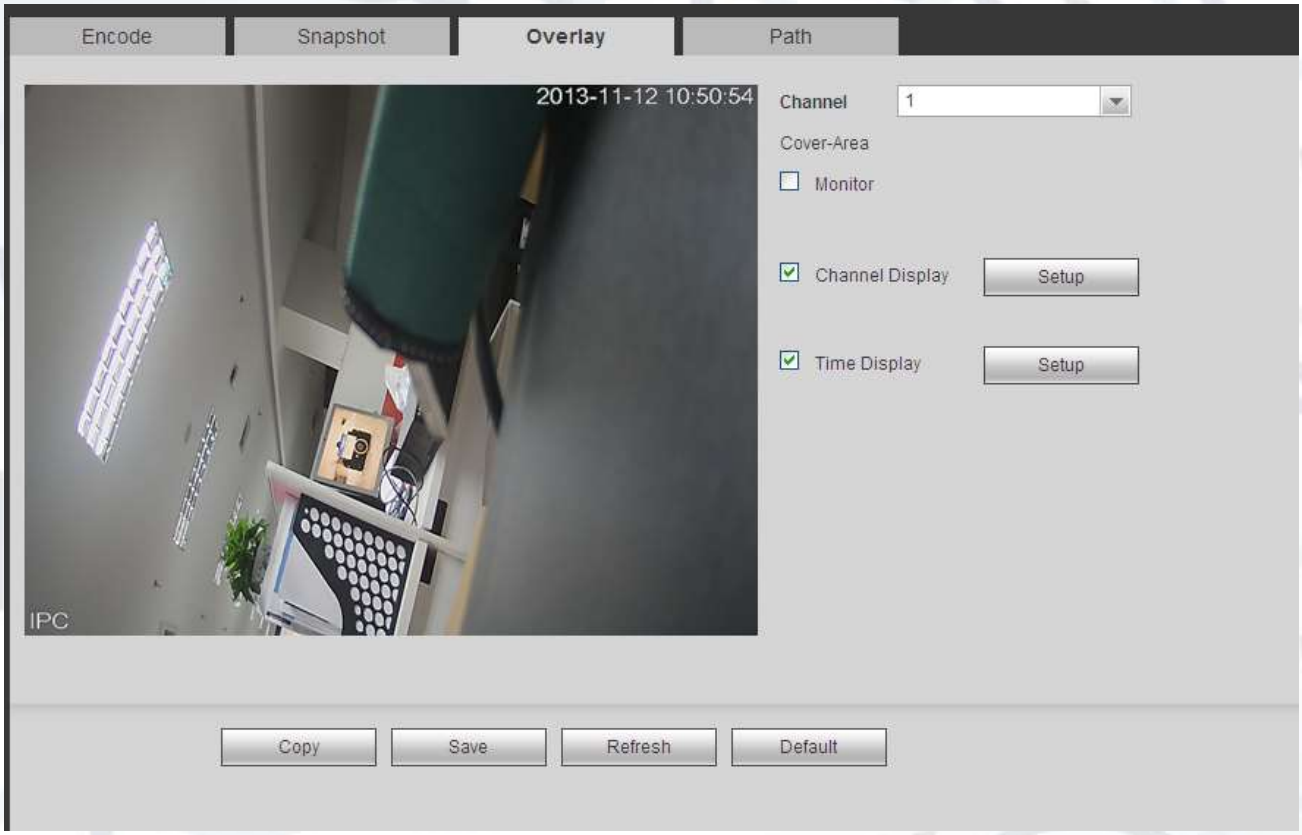

Figure 5-20

Please refer to the following sheet for detailed information:

Parameter	Function
Cover-area	• Check Preview or Monitor first. • Click Set button, you can privacy mask the specified video in the preview or monitor video. • System max supports 4 privacy mask zones.
Time Title	• You can enable this function so that system overlays time information in video window. • You can use the mouse to drag the time title position. • You can view time title on the live video of the WEB or the playback video.
Channel Title	• You can enable this function so that system overlays channel information in video window. • You can use the mouse to drag the channel title position. • You can view channel title on the live video of the WEB or the playback video.

5.8.1.3.4 Path

The storage path interface is shown as in Figure 5-21.

Here you can set snap image saved path (in the preview interface) and the record storage path (in the preview interface).The default setup is C:\PictureDownload and C:\RecordDownload.

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Please click the Save button to save current setup.

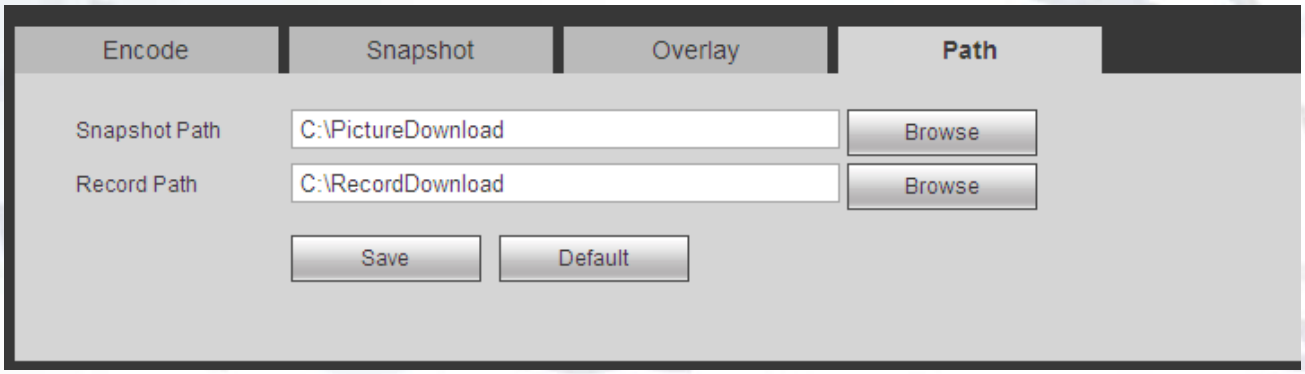

Figure 5-21

5.8.1.4 Channel Name

Here you can set channel name. See Figure 5-22.

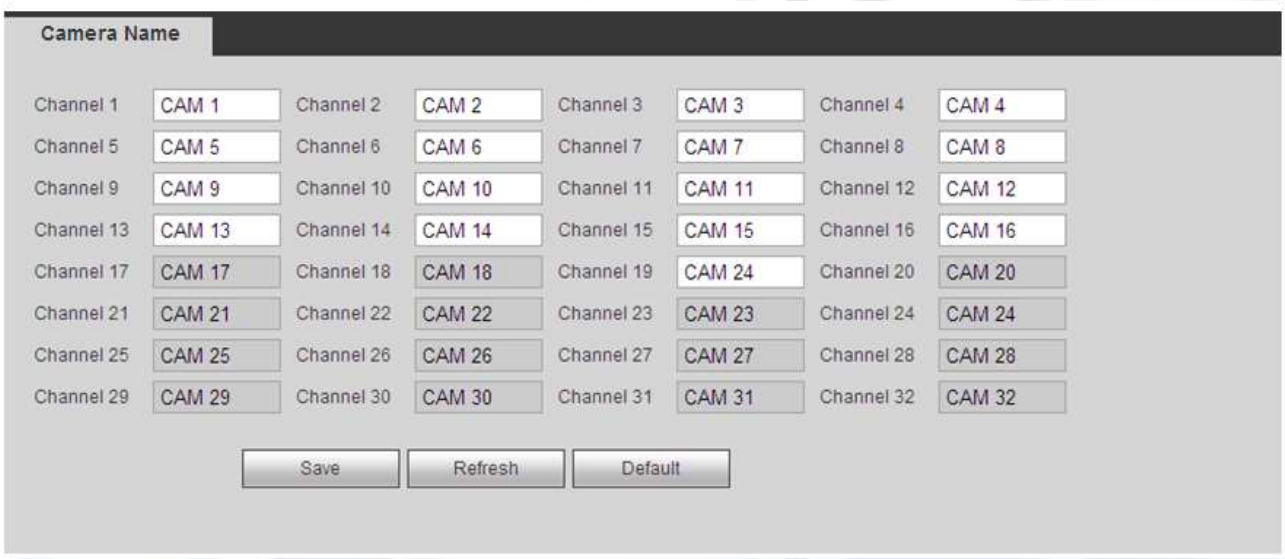

Figure 5-22

5.8.1.5 IPC Upgrade

This interface is to upgrade network camera. See Figure 5-23.

Click Browse button to select upgrade file. Or you can use filter to select several network cameras at the same time.

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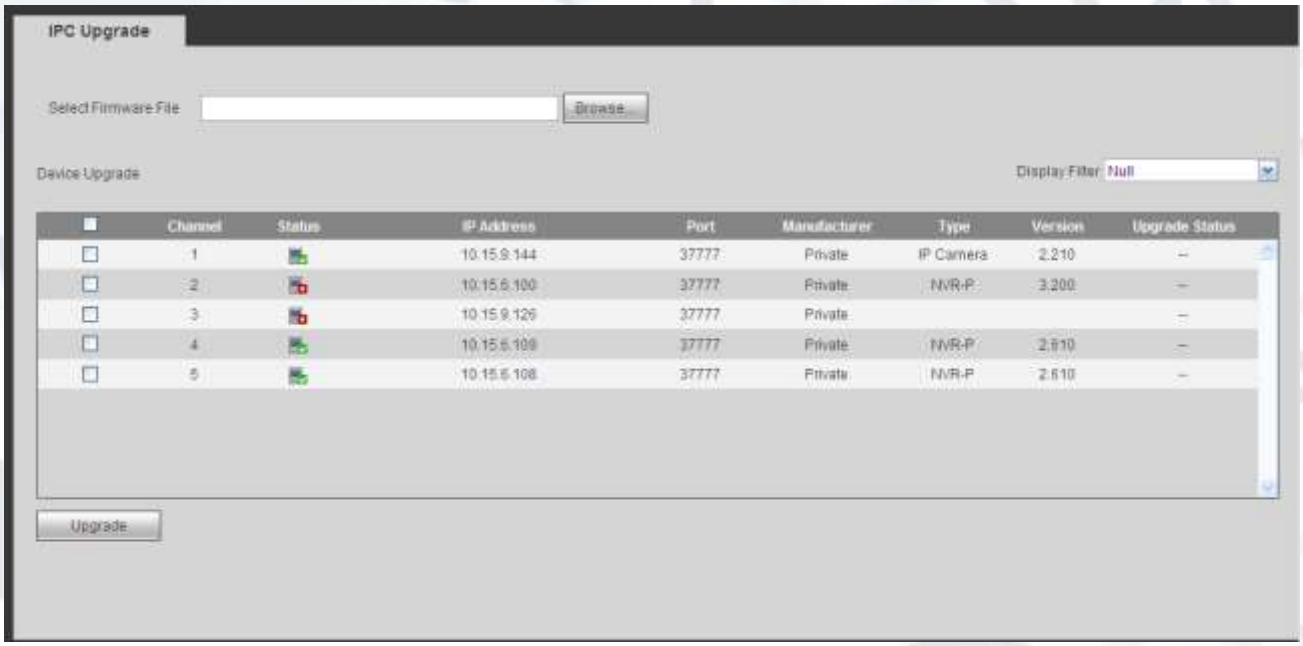

Figure 5-23

5.8.2 Network

5.8.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 5-24.

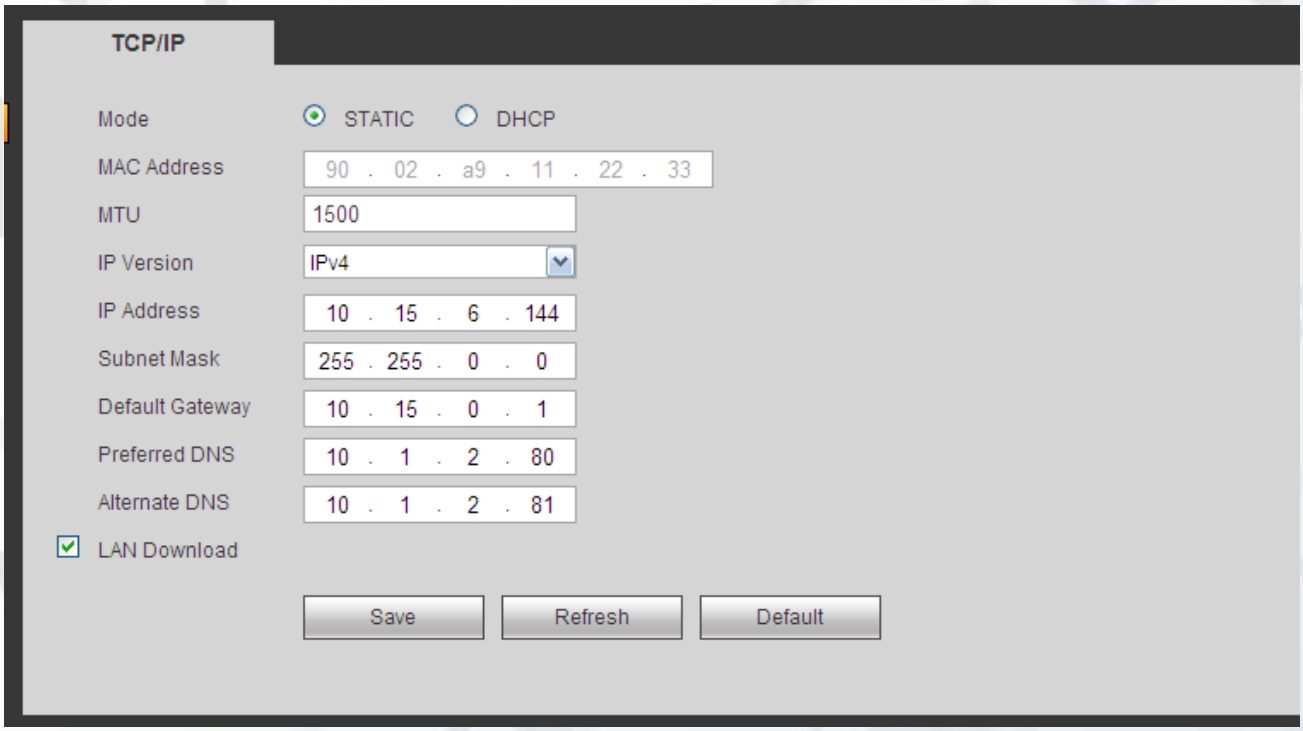

Figure 5-24

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Please refer to the following sheet for detailed information:

Parameter	Function
Mode	There are two modes: static mode and the DHCP mode. • The IP/submask/gateway are null when you select the DHCP mode to auto search the IP. • If you select the static mode, you need to set the IP/submask/gateway manually. • If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. • If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. • Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
Mac Address	This is to display host Mac address.
IP Version	This is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.
For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. It shall not be left in blank.	
LAN load	System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

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5.8.2.2 Connection

The connection interface is shown as in Figure 5-25.

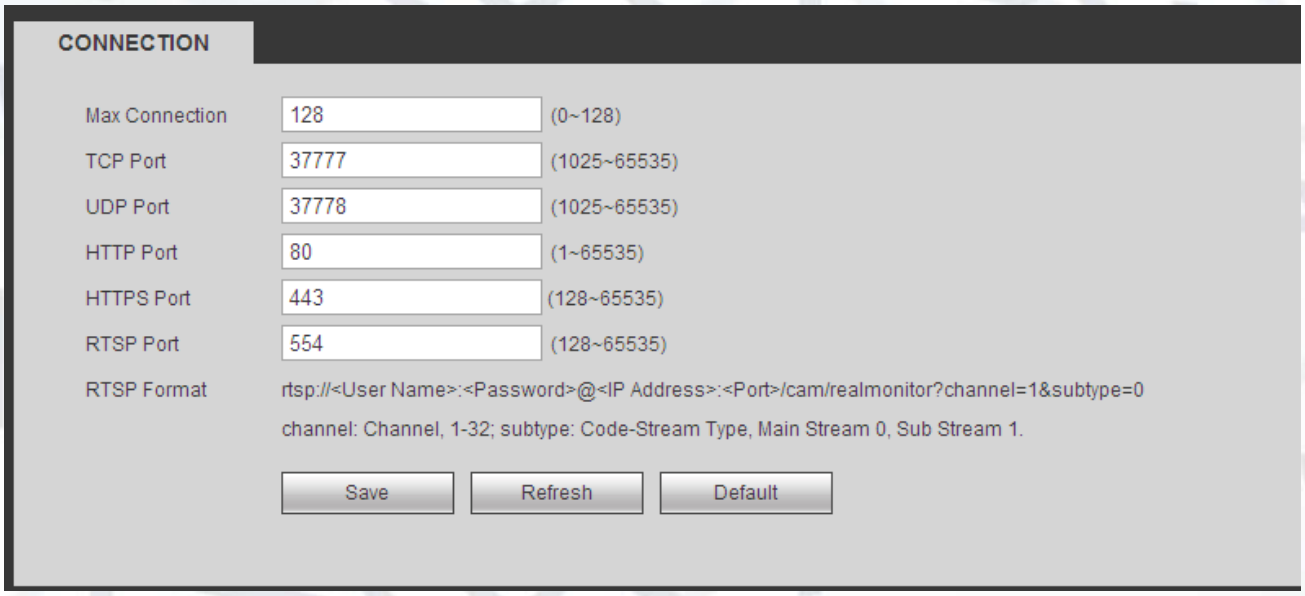

Figure 5-25

Please refer to the following sheet for detailed information:

Parameter	Function
Max connection	It is the max Web connection for the same device. The value ranges from 1 to 120. The default setup is 120.
TCP port	The default value is 37777. You can input the actual port number if necessary.
UDP port	The default value is 37778. You can input the actual port number if necessary.
HTTP port	The default value is 80. You can input the actual port number if necessary.
HTTPS	The default value is 443. You can input the actual port number if necessary.
RTSP port	The default value is 554.

5.8.2.3 WIFI

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 5-26.

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Figure 5-26

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. Click Refresh button, you can view latest connection status.

5.8.2.4 3G

5.8.2.4.1 CDMA/GPRS

The CDMA/GPRS interface is shown as in Figure 5-27.

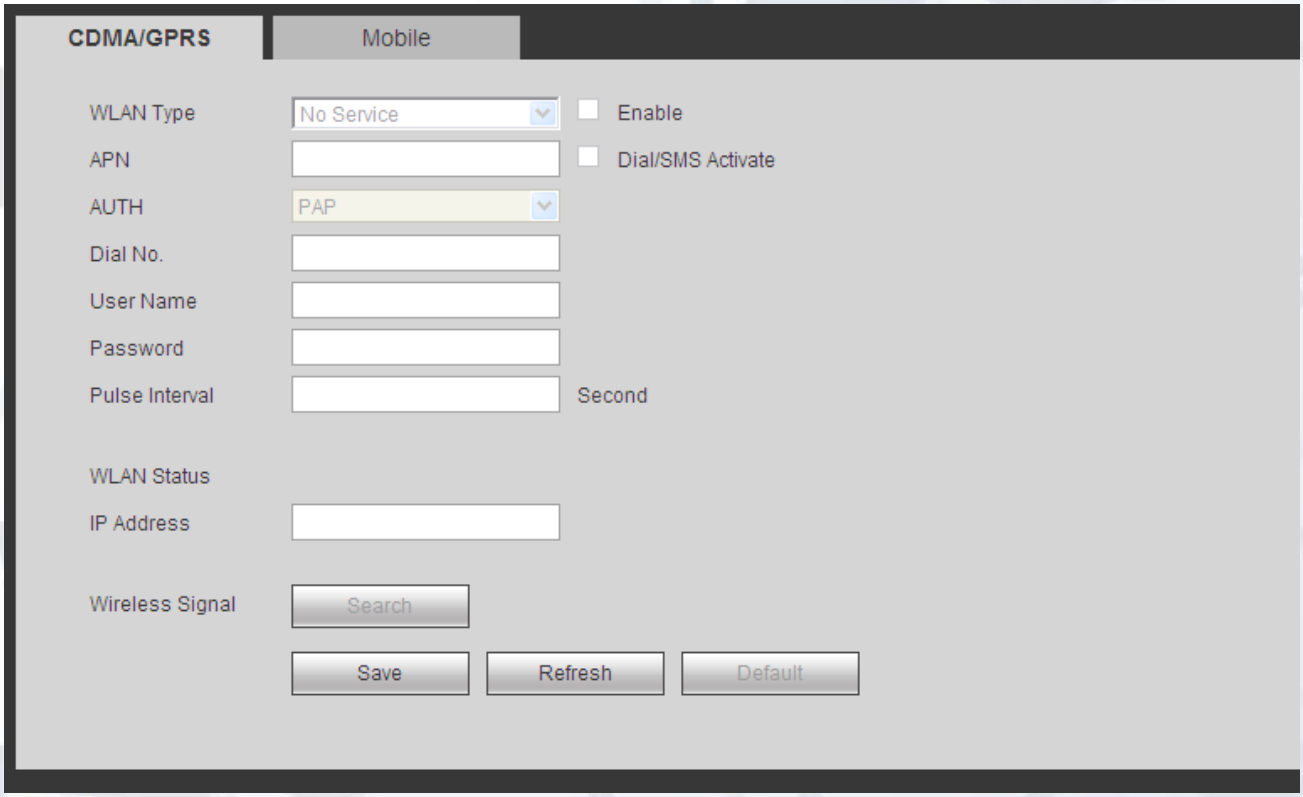

Figure 5-27

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Please refer to the following sheet for detailed information:

Parameter	Function
WLAN type	Here you can select 3G network type to distinguish the 3G module from different ISP. The types include WCDMA，CDMA1x , etc.
APN/Dial No.	Here is the important parameter of PPP.
Authorization	It includes PAP,CHAP,NO_AUTH.
Pulse interval	This is to set time to end 3G connection after you close extra stream monitor. For example, if you input 60 here, system ends 3G connection after you close extra stream monitor 60 seconds.
Important ✧ **If the pulse interval is 0, then system does not end 3G connection after you close the extra stream monitor.** ✧ **Pulse interval here is for extra stream only. This item is null if you are using main stream to monitor.**	

5.8.2.4.2 Mobile

The mobile setup interface is shown as in Figure 5-28.

Here you can activate or turn off the 3G connected phone or mobile phone, or the phone you set to get alarm message.

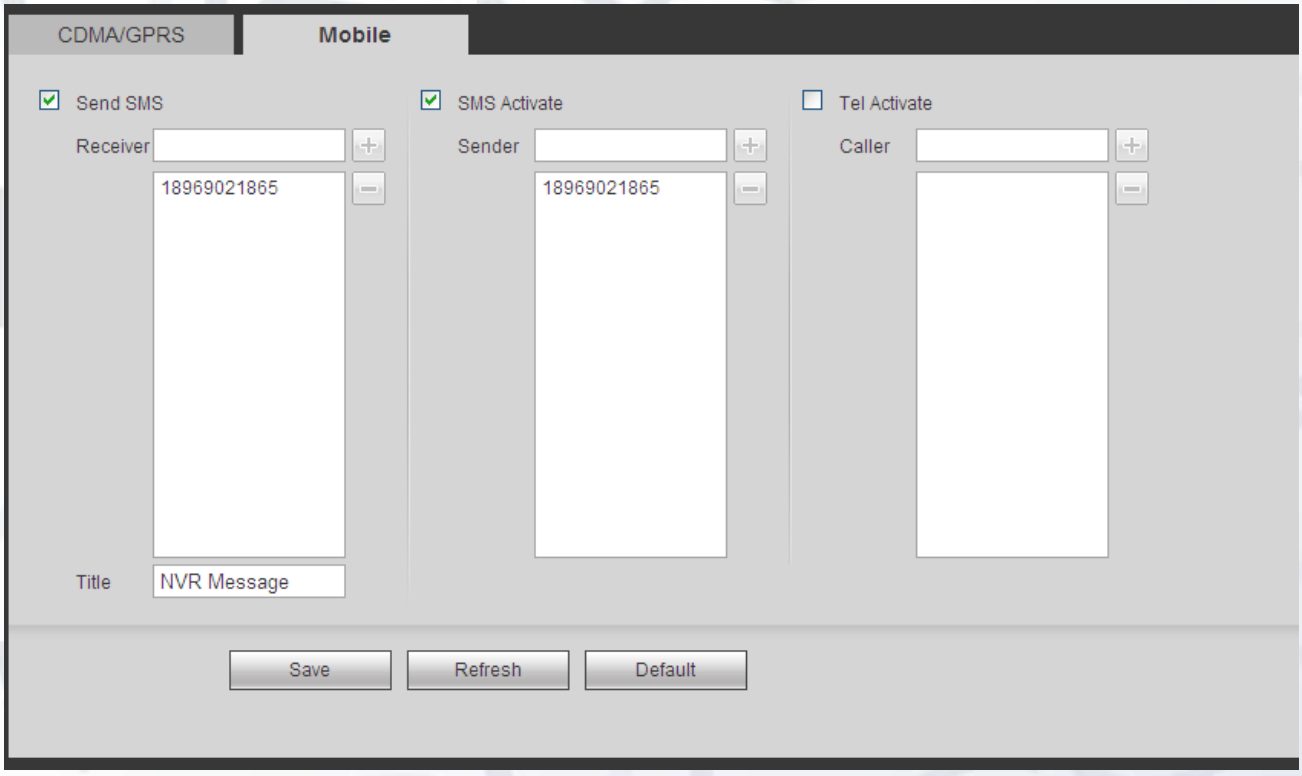

Figure 5-28

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5.8.2.5 PPPoE

The PPPoE interface is shown as in Figure 5-29.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column.

Please note, you need to use previous IP address in the LAN to login the device. Please go to the IP address item to via the device current device information. You can access the client-end via this new address.

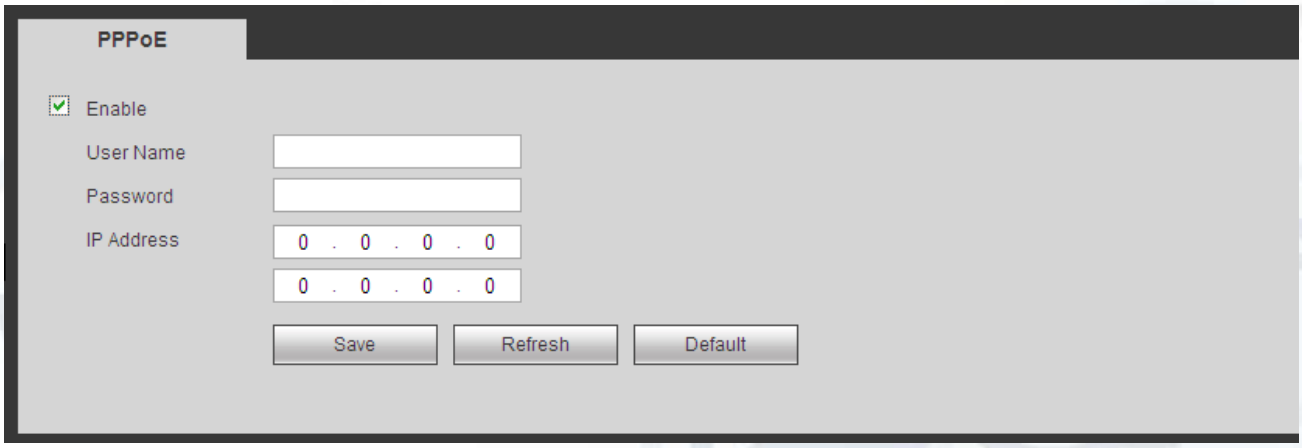

Figure 5-29

5.8.2.6 DDNS

The DDNS interface is shown as in Figure 5-30.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Please select DDNS from the dropdown list (Multiple choices). Before you use this function, please make sure your purchased device support current function.

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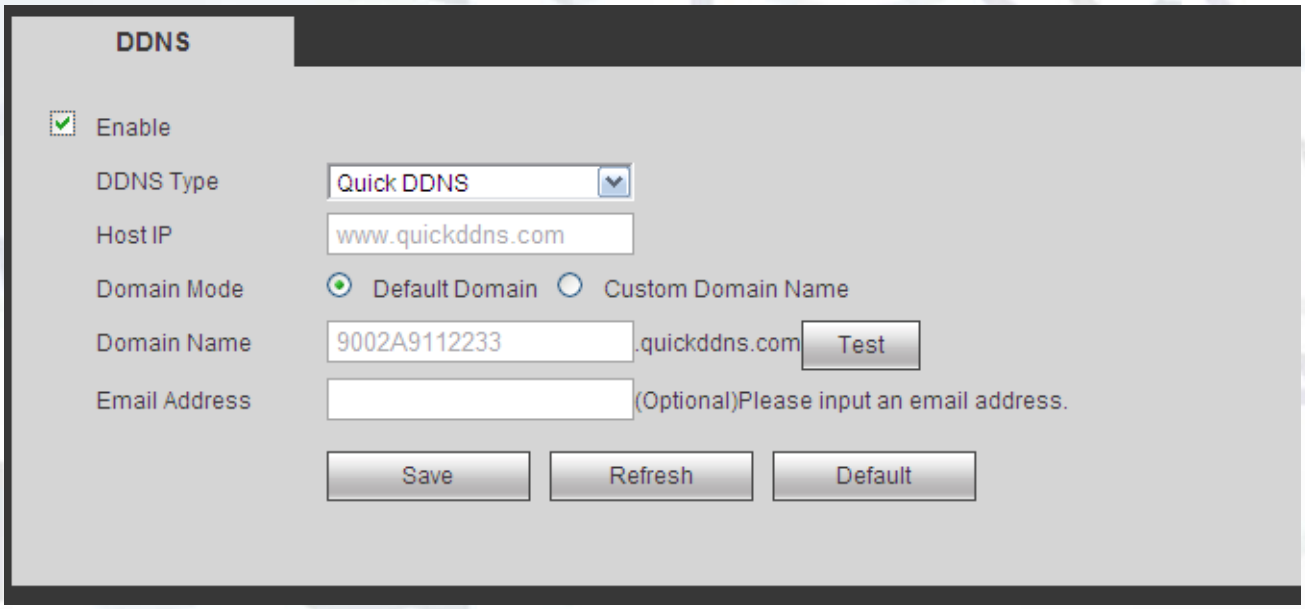

Figure 5-30

Please refer to the following sheet for detailed information:

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Update period	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

Quick DDNS and Client-end Introduction

1. Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the NVR via the registered domain name. Besides the general DDNS, the quick DDNS works with the device from the manufacturer so that it can add the extension function.

2. Function Introduction

The quick DDNS client has the same function as other DDNS client end. It bonds the domain name and the IP address together. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customised valid domain name (has not registered.).

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3. Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- **Server address：www.quickddns.com**
- **Port number：80**
- **Domain name：** There are two modes: Default domain name and customised domain name.

Except default domain name registration, you can also use customised domain name (You can input your self-defined domain name.) After a successful registration, you can use domain name to login installed of the device IP.

- **User name**: It is optional. You can input your commonly used email address.

IMPORTANT

- **Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in simulated server attack.**
- **System may take back the domain name that is idle after one year. You can get a notification email before the cancel operation if your email address setup is OK.**

5.8.2.7 IP filter

The IP filter interface is shown as in Figure 5-31.

After you enabled trusted sites function, only the IP listed below can access current NVR.

If you enable blocked sites function, the following listed IP addresses cannot access current NVR.

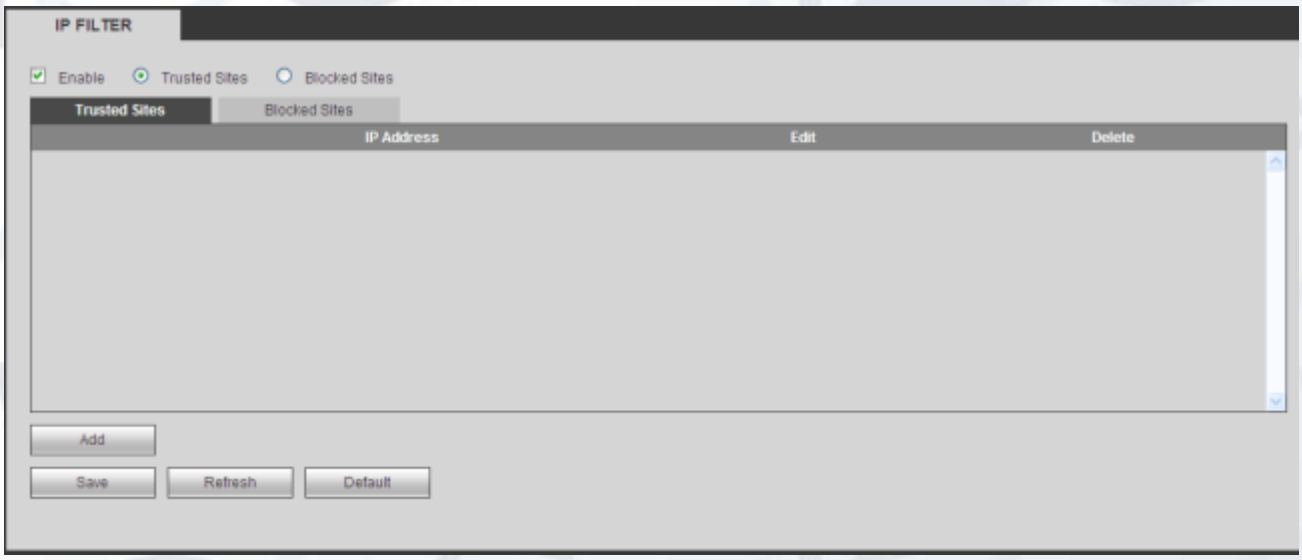

Figure 5-31

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5.8.2.8 Email

The email interface is shown as in Figure 5-32.

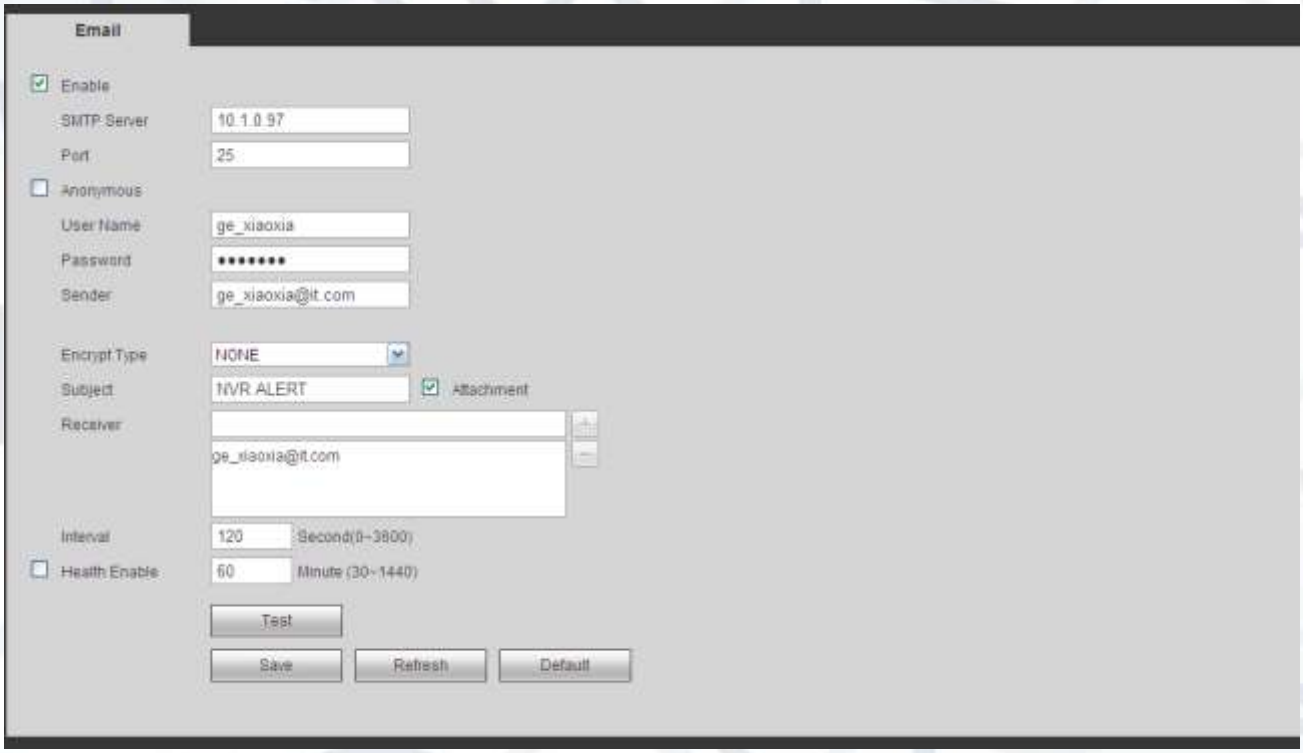

Figure 5-32

Please refer to the following sheet for detailed information:

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name. password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL or none.
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.

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Parameter	Function
Receiver	• Input receiver email address here. Maximum three addresses. • It supports SSL, TLS email box.
Interval	• The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. • Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	• This function allows the system to send out the test email to check the connection is OK or not. • Please check the box to enable this function and then set the corresponding interval. • System can send out the email regularly as you set here.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

5.8.2.9 UPnP

It allows you to establish the mapping relationship between the LAN and the public network.

Here you can also add, modify or remove UPnP item. See Figure 5-33.

- In the Windows OS, From **Start->Control Panel->Add** or remove programs. Click the “Add/Remove Windows Components” and then select the “Network Services” from the Windows Components Wizard.
- Click the Details button and then check the “Internet Gateway Device Discovery and Control client” and “UPnP User Interface”. Please click OK to begin installation.
- Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the NVR can auto detect it via the “My Network Places”

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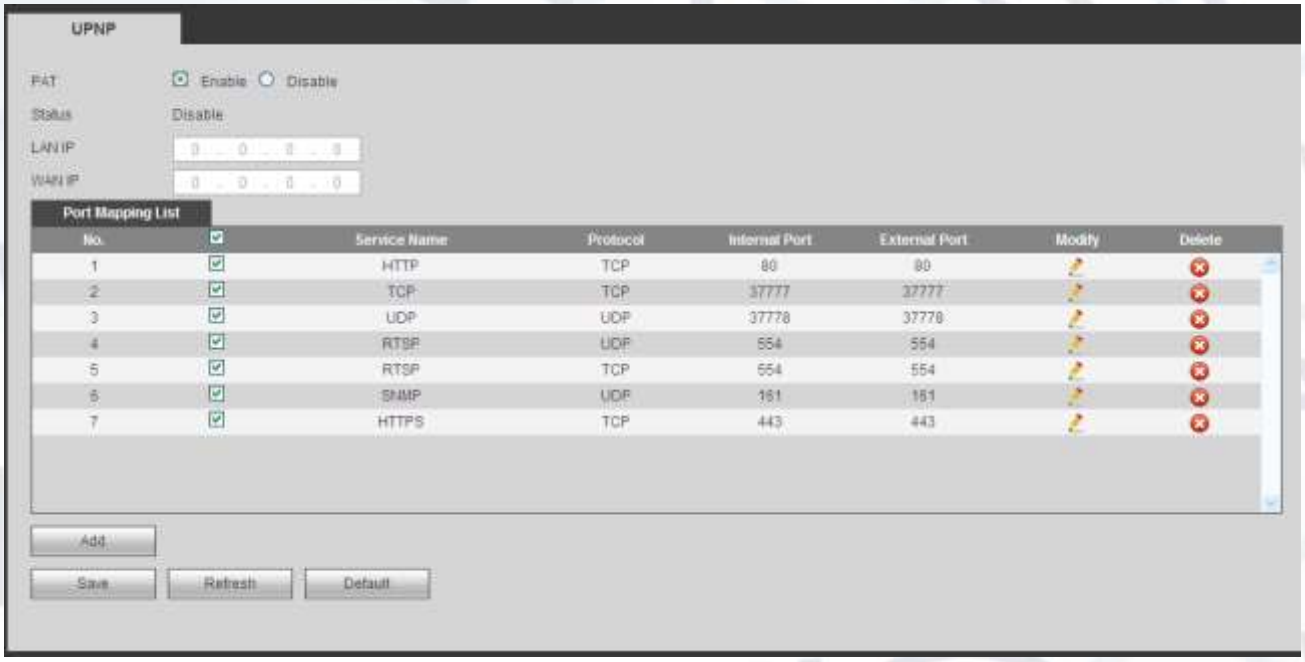

Figure 5-33

5.8.2.10 SNMP

The SNMP interface is shown as in Figure 5-34.

The SNMP allows the communication between the network management work station software and the proxy of the managed device. It is reserved for the 3rd party to develop.

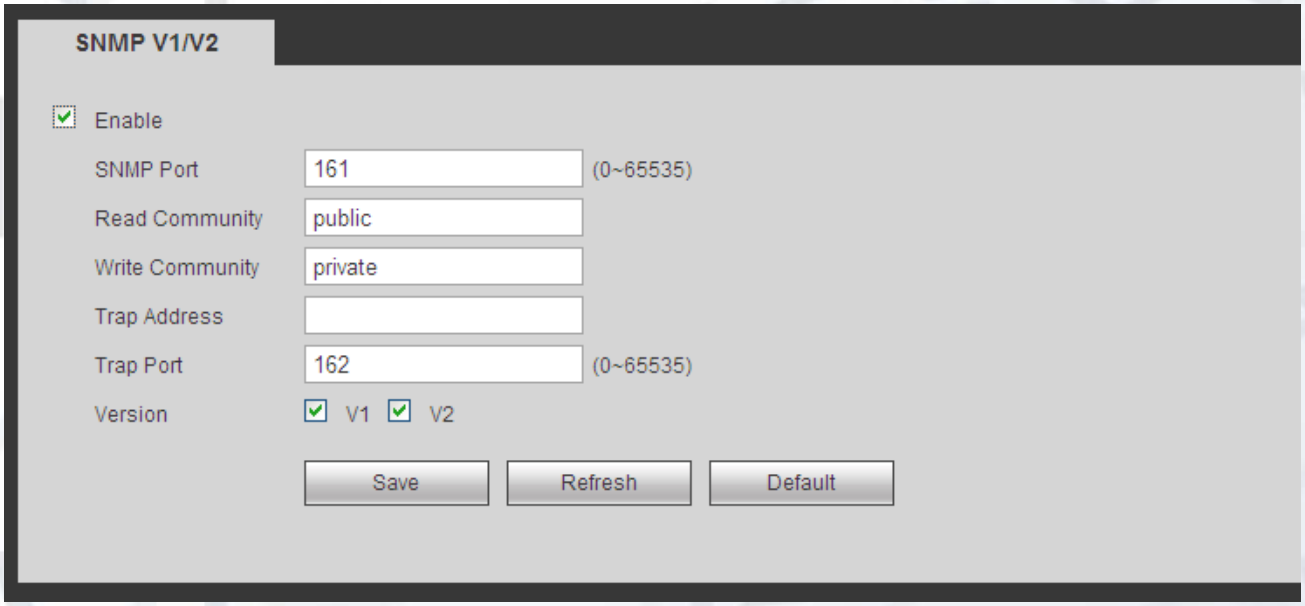

Figure 5-34

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Please refer to the following sheet for detailed information:

Parameter	Function
SNMP Port	The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Read Community	• It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. • The read community will read all the objects the SNMP supported in the specified name. The default setup is public.
Write Community	• It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. • The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write.
Trap address	The destination address of the Trap information from the proxy program of the device.
Trap port	The destination port of the Trap information from the proxy program of the device. It is for the gateway device and the client-end PC in the LAN to exchange the information. It is a non-protocol connection port. It has no effect on the network applications. It is a UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162.
SNMP version	● Check V1, system only processes the information of V1. ● Check V2, system only processes the information of V2.

5.8.2.11 Multicast

The multicast interface is shown as in Figure 5-35.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

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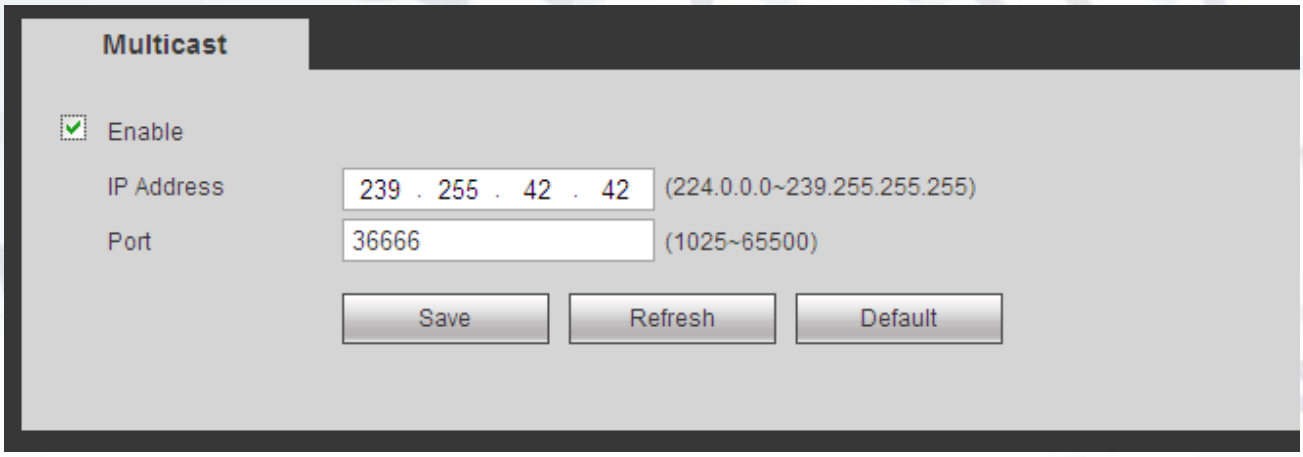

Figure 5-35

5.8.2.12 Auto Register

The auto register interface is shown as below. See Figure 5-36.

This function allows the device to auto register to the proxy you specified. In this way, you can use the client-end to access the NVR, etc. via the proxy. Here the proxy has a switch function. In the network service, device supports the server address of IPv4 or domain.

Please follow the steps listed below to use this function.

Please set proxy server address, port, and sub-device name at the device-end. Please enable the auto register function, the device can auto register to the proxy server.

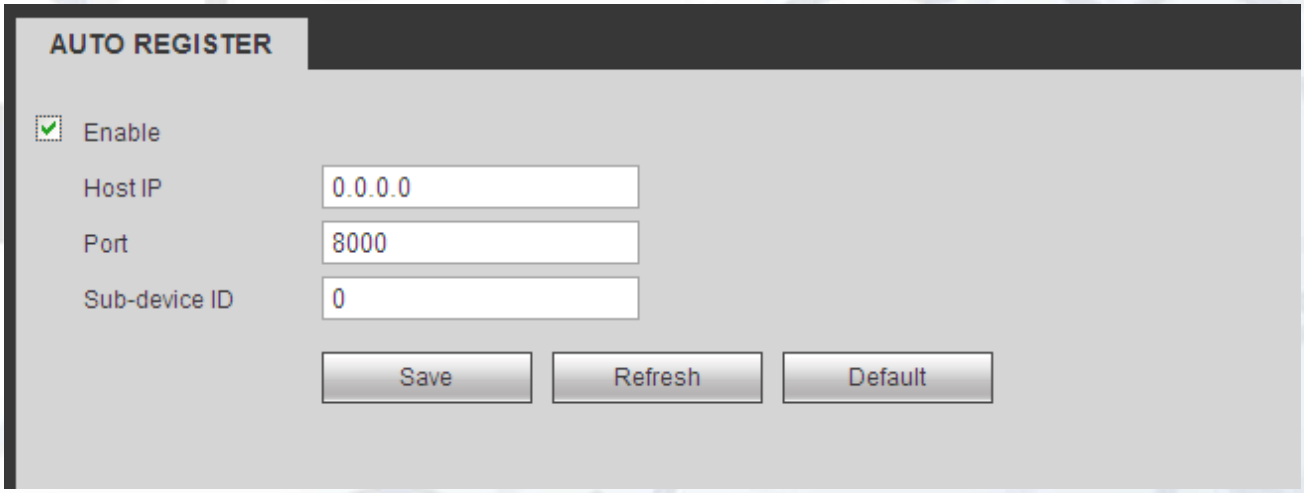

Figure 5-36

5.8.2.13 Alarm Centre

The alarm center interface is shown as below. See Figure 5-37.

This interface is reserved for you to develop. System can upload alarm signal to the alarm center when local alarm occurs.

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Before you use alarm center, please set server IP, port , etc. When an alarm occurs, system can send out data as the protocol defined, so the client-end can get the data.

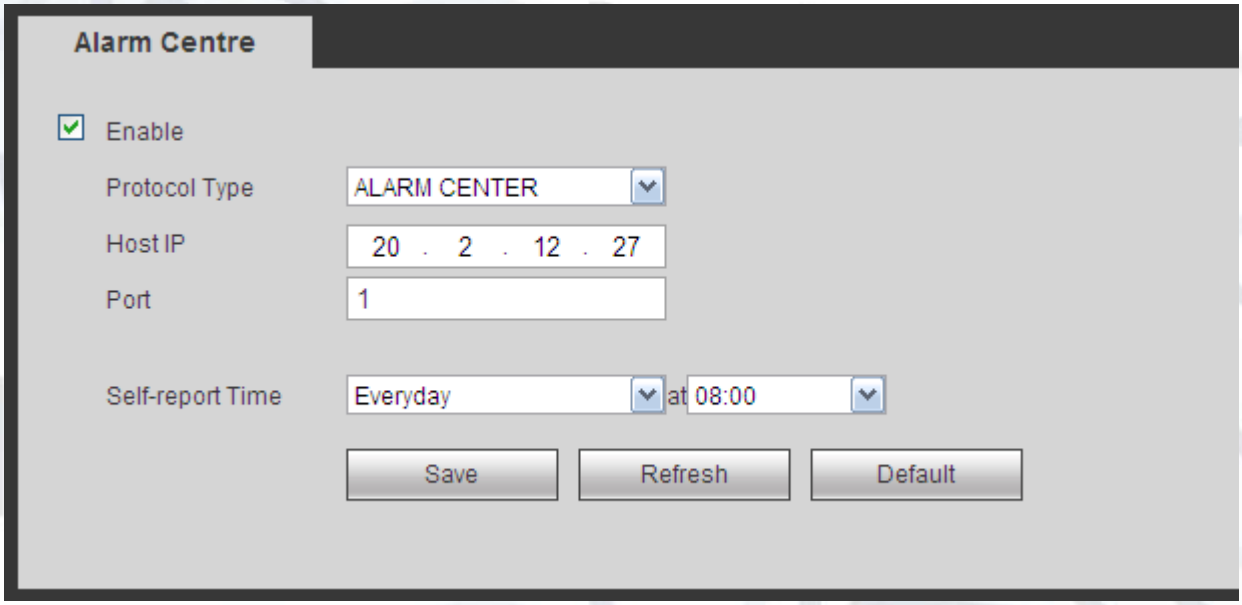


Figure 5-37

5.8.2.14 HTTPS

In this interface, you can set to make sure the PC can successfully login via the HTTPS. This is to guarantee communication data security. The reliable and stable technology can secure the user information security and device safety. See Figure 5-38.

Notes:

- You need to implement server certificate again if you have changed device IP.
- You need to download root certificate if it is your first time to use HTTPS on current PC.

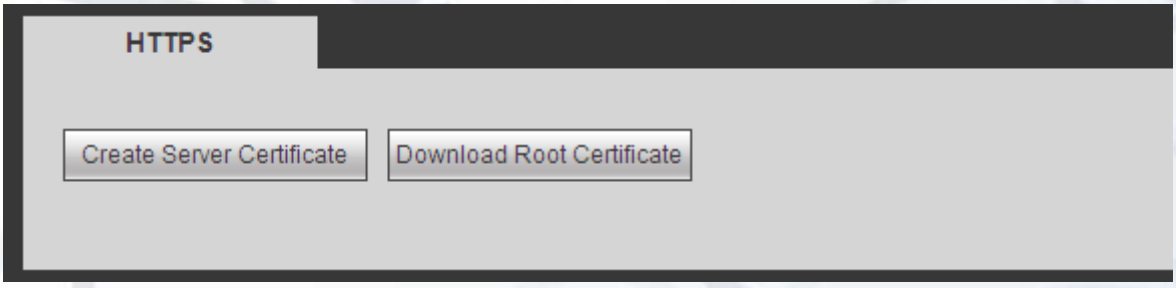
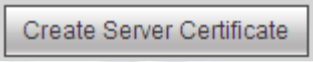


Figure 5-38

5.8.2.14.1 Create Server Certificate

If it is your first time to use this function, please follow the steps listed below.

In Figure 5-38, click 

button, input country name, state name , etc. Click Create button. See Figure 5-39.

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Note:
Please make sure the IP or domain information is the same as your device IP or domain name.

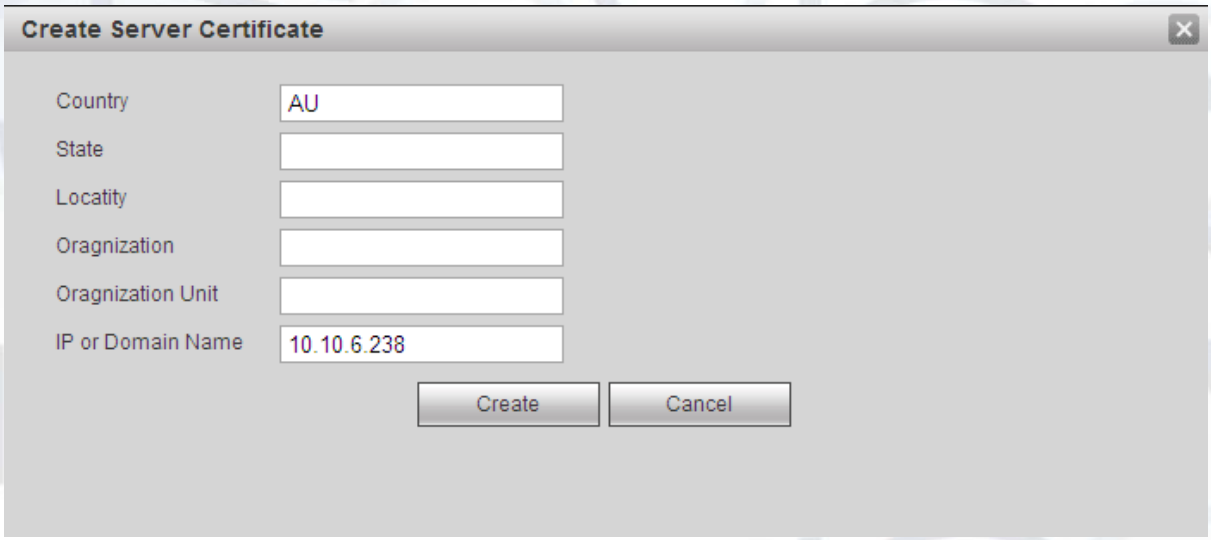

Figure 5-39

You can see the corresponding prompt. See Figure 5-40. Now the server certificate is successfully created.

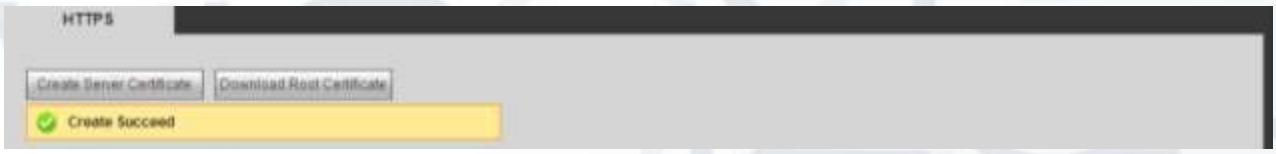

Figure 5-40

5.8.2.14.2 Download root certificate

In Figure 5-38, click Download Root Certificate button, system pops up a dialogue box. See Figure 5-41.

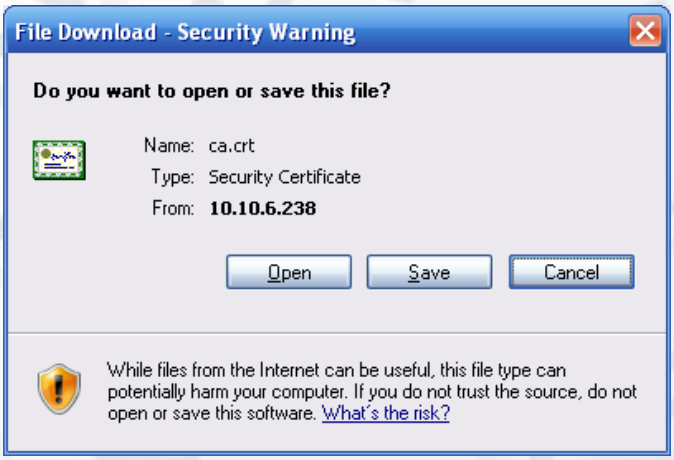
File Download - Security Warning
Do you want to open or save this file?
Name: ca.crt
Type: Security Certificate
From: 10.10.6.238
Open
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not open or save this software. What's the risk?

Figure 5-41

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Click Open button, you can go to the following interface. See Figure 5-42.

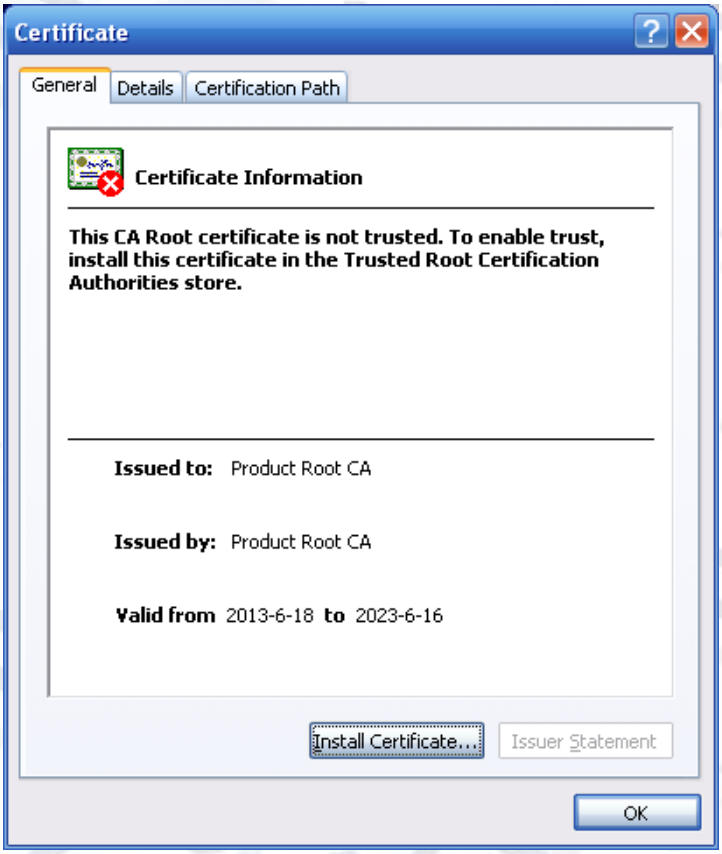

Figure 5-42

Click Install certificate button, you can go to certificate wizard. See Figure 5-43.

Certificate Import Wizard
Welcome to the Certificate Import Wizard
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
To continue, click Next.
< Back
Next >
Cancel

Figure 5-43

Click Next button to continue. Now you can select a location for the certificate. See Figure 5-44.

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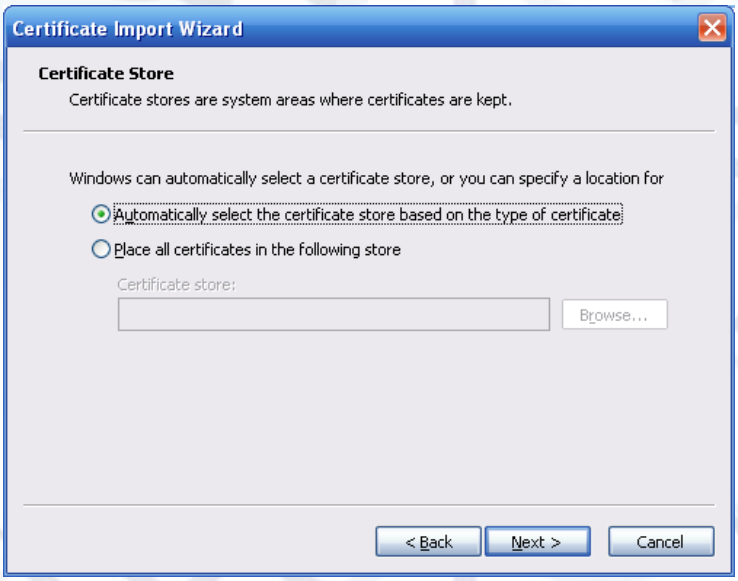
Certificate Import Wizard
Certificate Store
Certificate stores are system areas where certificates are kept.
Windows can automatically select a certificate store, or you can specify a location for
Automatically select the certificate store based on the type of certificate
Place all certificates in the following store
Certificate store:
Browse...
< Back
Next >
Cancel

Figure 5-44

Click Next button, you can see the certificate import process is complete. See Figure 5-45.

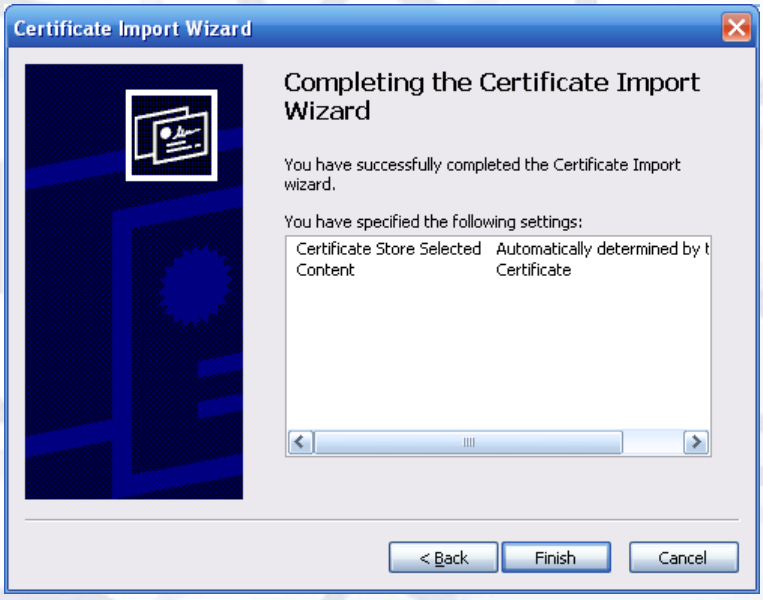

Figure 5-45

Click Finish button, you can see system pops up a security warning dialogue box. See Figure 5-46.

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Security Warning
You are about to install a certificate from a certification authority (CA) claiming to represent:
Product Root CA
Windows cannot validate that the certificate is actually from "Product Root CA". You should confirm its origin by contacting "Product Root CA". The following number will assist you in this process:
Thumbprint (sha1): CD20E4B2 A52D50B8 8447BD20 5C67B033 397E3F81
Warning:
If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.
Do you want to install this certificate?
Yes
No

Figure 5-46

Click Yes button, system pops up the following dialogue box, you can see the certificate download is complete. See Figure 5-47.

Figure 5-47

5.8.2.14.3 View and set HTTPS port

From **Setup->Network->Connection**, you can see the following interface. See Figure 5-48. You can see HTTPS default value is 443.

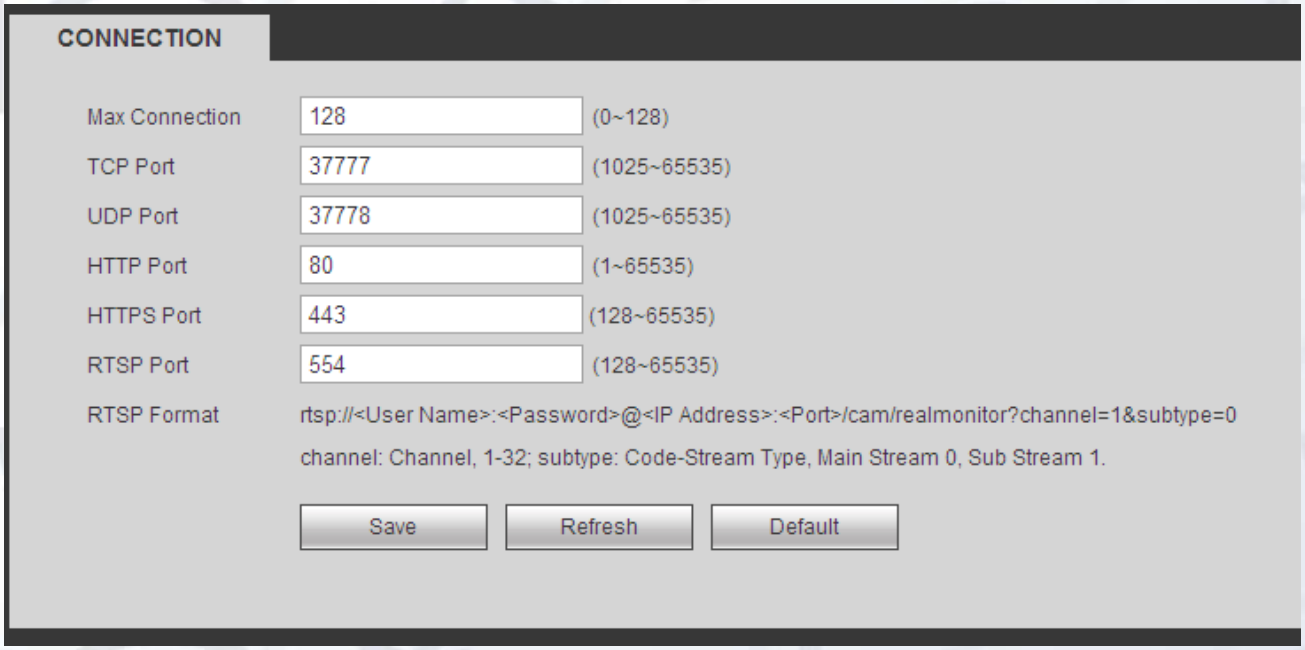

Figure 5-48

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5.8.2.14.4 Login

Open the browser and then input **https://xx.xx.xx.xx:port.**
xx.xx.xx.xx: is your device IP or domain mane.

Port is your HTTPS port. If you are using default HTTPS value 443, you do not need to add port information here. You can input **https://xx.xx.xx.xx** to access.

Now you can see the login interface if your setup is right.

5.8.3 Event

5.8.3.1 Video detect

5.8.3.1.1 Motion Detect

After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here.

The motion detect interface is shown as in Figure 5-49.

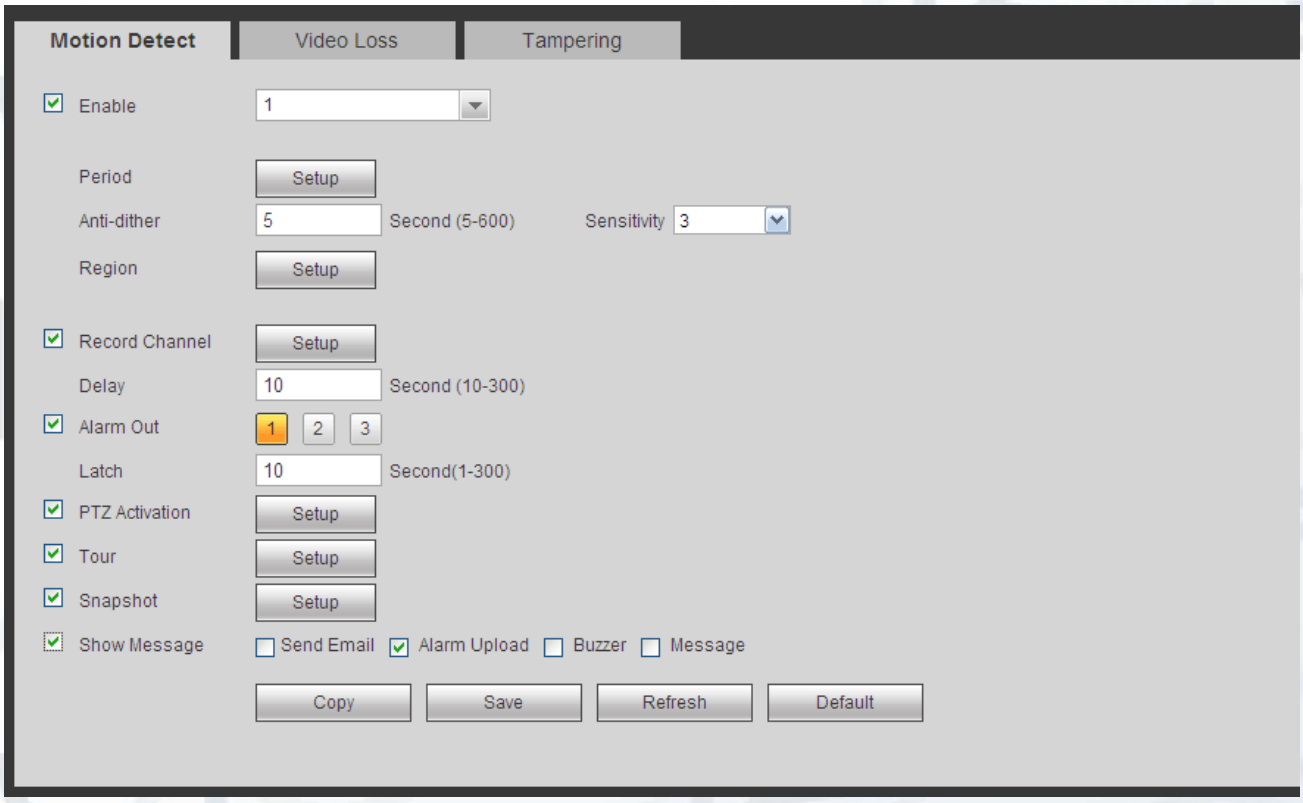

Figure 5-49

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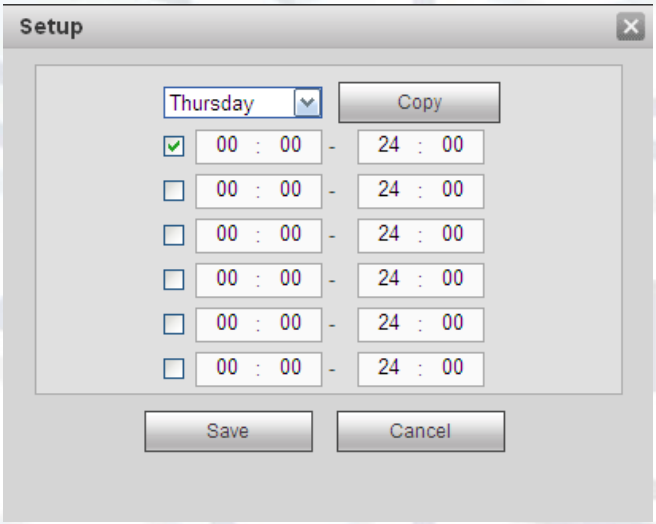

Figure 5-50

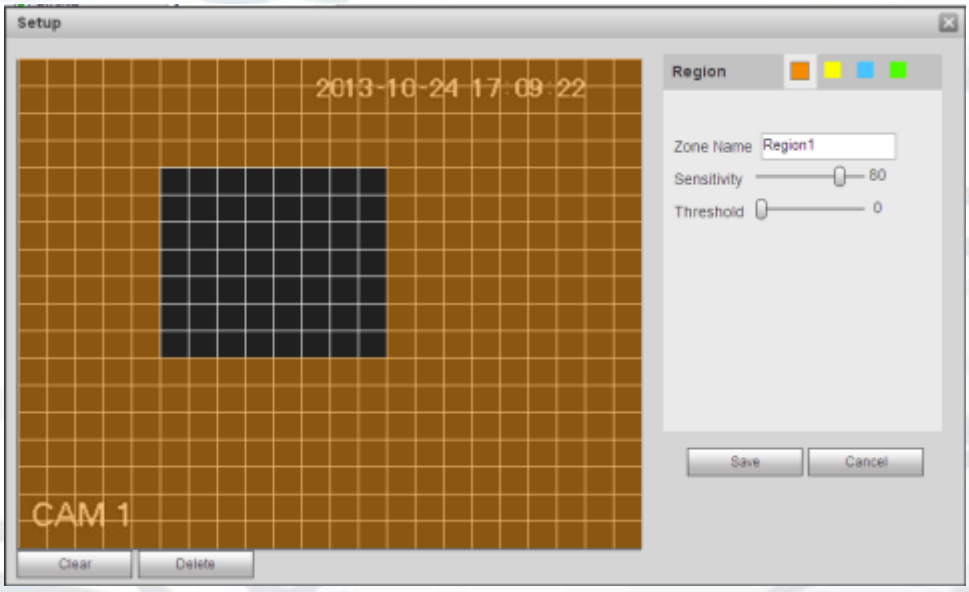

Figure 5-51

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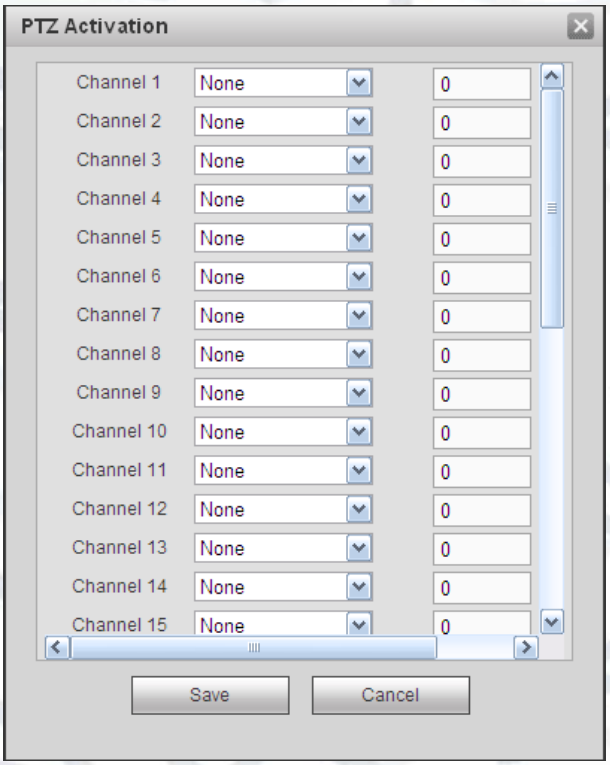

Figure 5-52

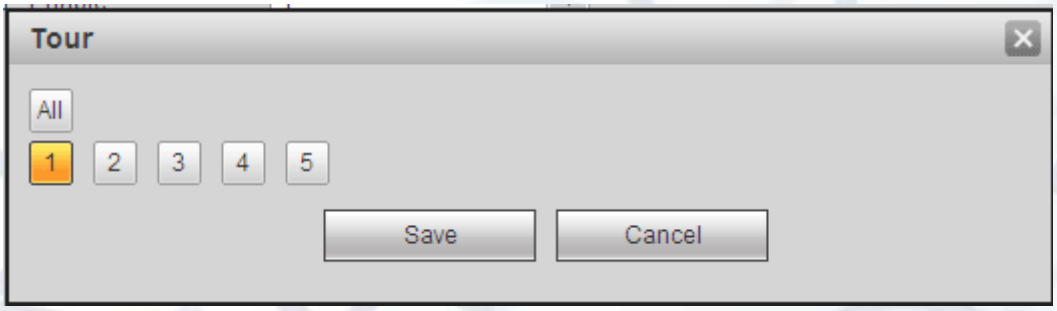

Figure 5-53

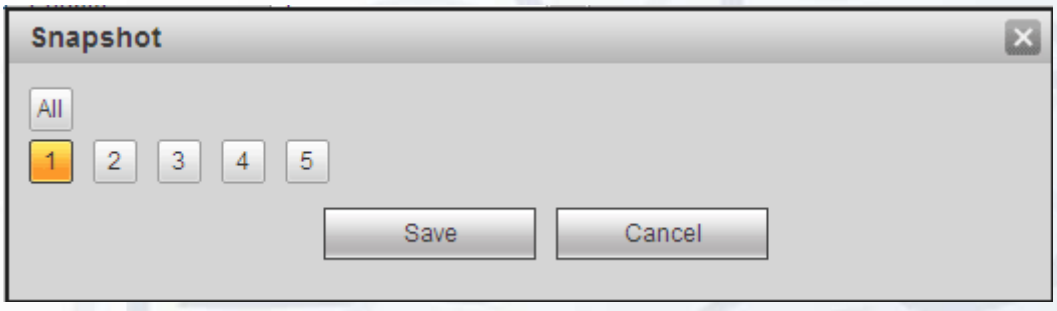

Figure 5-54

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Please refer to the following sheet for detailed information:

Parameter	Function
Enable	You need to check the box to enable motion detection function. Please select a channel from the dropdown list.
Period	• Motion detection function becomes activated in the specified periods. See Figure 5-50. • There are six periods in one day. Please draw a circle to enable corresponding period. • Click OK button, system goes back to motion detection interface; please click save button to exit.
Anti-dither	System only memorises one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 5-51. Here you can set motion detection zone. There are four zones for you to set. Please select a zone first and then left drag the mouse to select a zone. The corresponding color zone displays different detection zone. You can click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set motion detect record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G network connection is OK, system can send out a message when motion detect occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.

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Tour	You need to click setup button to select tour channel. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. See Figure 5-53.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 5-52.
Snapshot	Click setup button to select snapshot channel. See Figure 5-54.
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes “first come and first serve” principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.

5.8.3.1.2 Video Loss

The video loss interface is shown as in Figure 5-55.

Please note video loss does not support anti-dither, sensitivity, region setup. For rest setups, please refer to chapter 5.8.3.1.1 motion detect for detailed information.

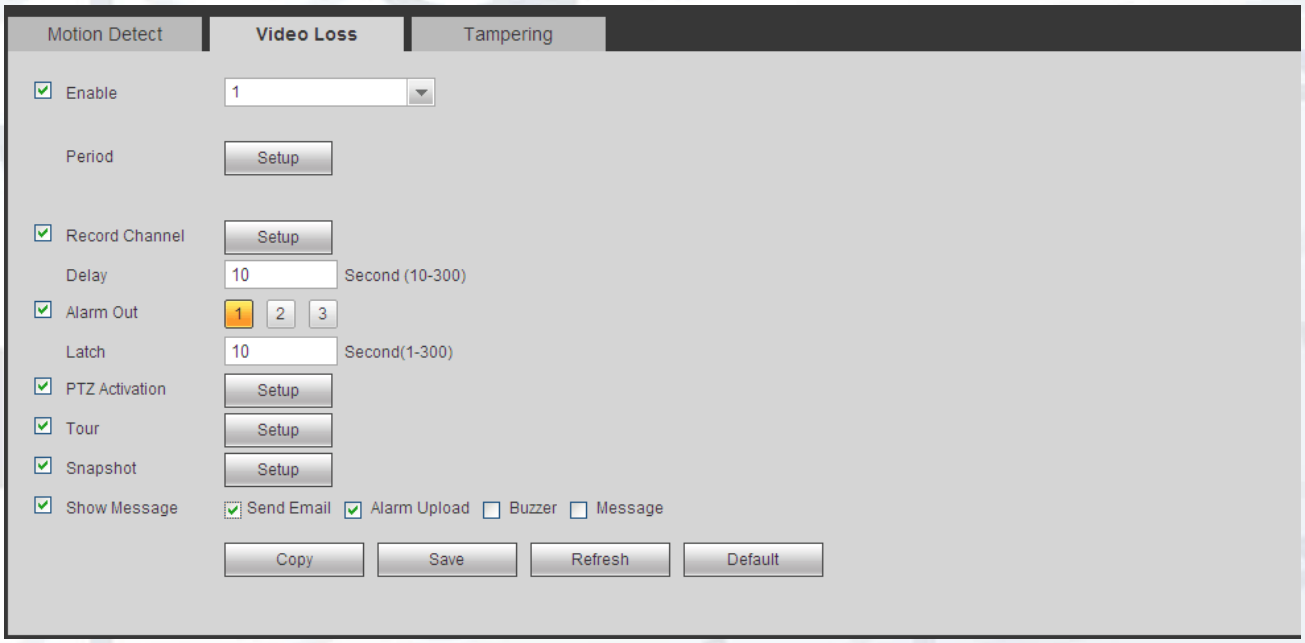

Figure 5-55

5.8.3.1.3 Tampering

The tampering interface is shown as in Figure 5-56.

After analysis video, system can generate a tampering alarm when the detected moving signal reached the sensitivity you set here.

For detailed setups, please refer to chapter 5.8.3.1.1 motion detect for detailed information.

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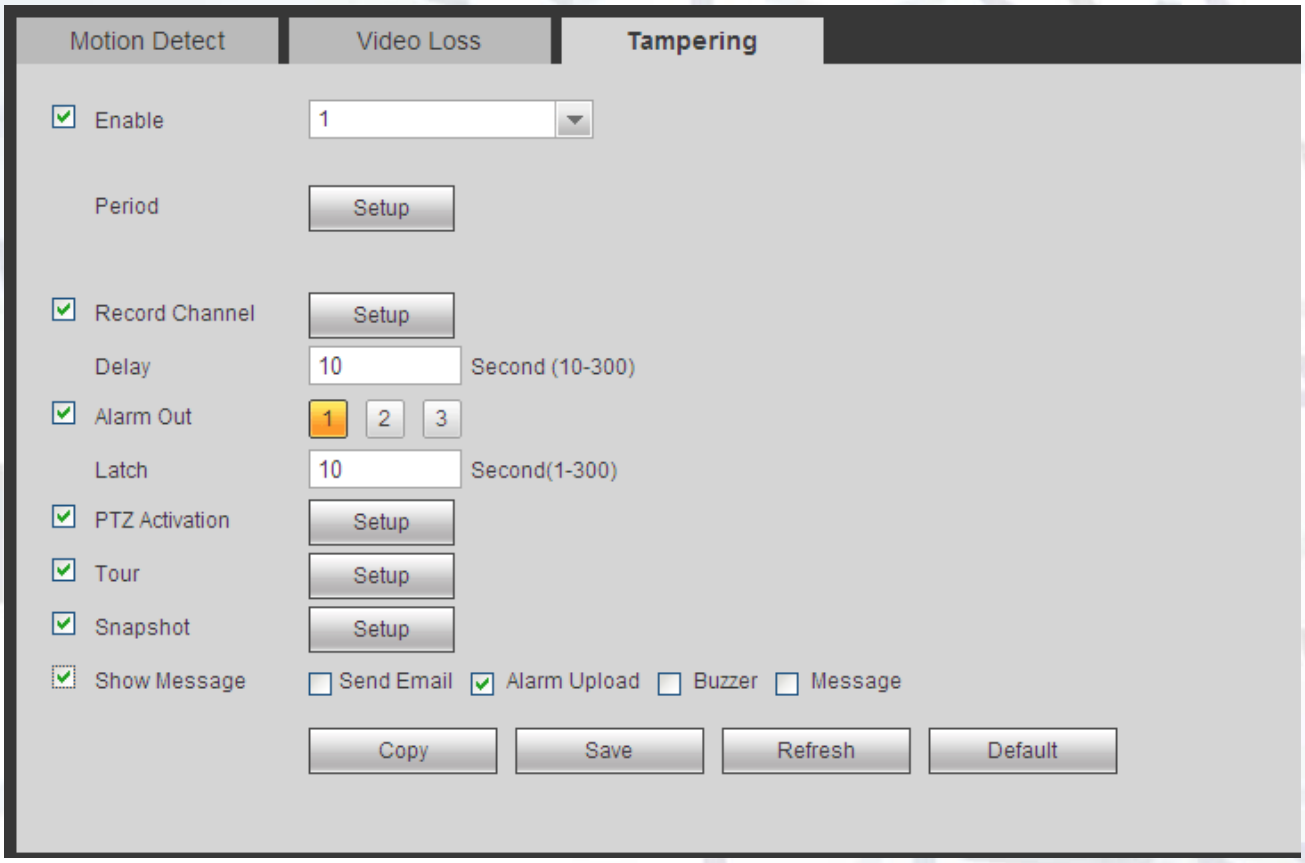

Figure 5-56

5.8.3.2 Alarm

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm.

5.8.3.2.1 Local Alarm

The local alarm interface is shown as in Figure 5-57. It refers to alarm from the local device.

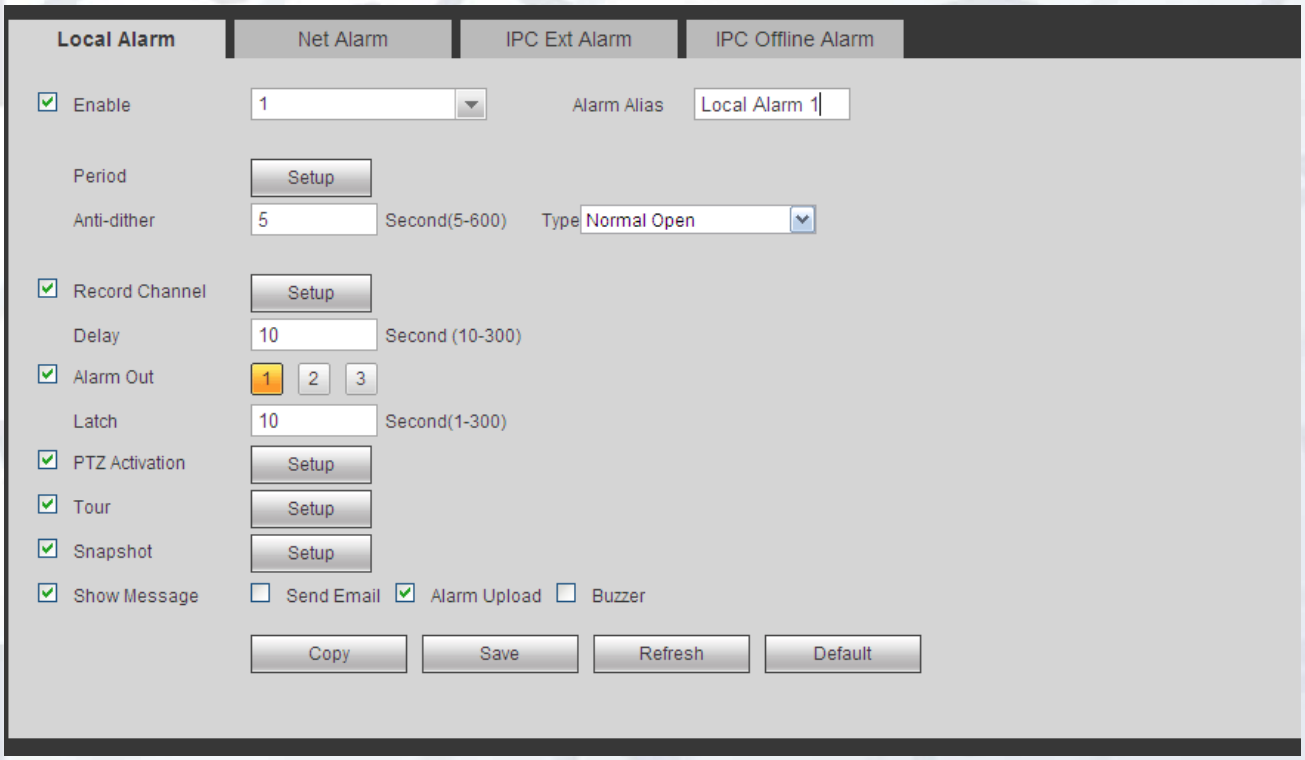

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Figure 5-57

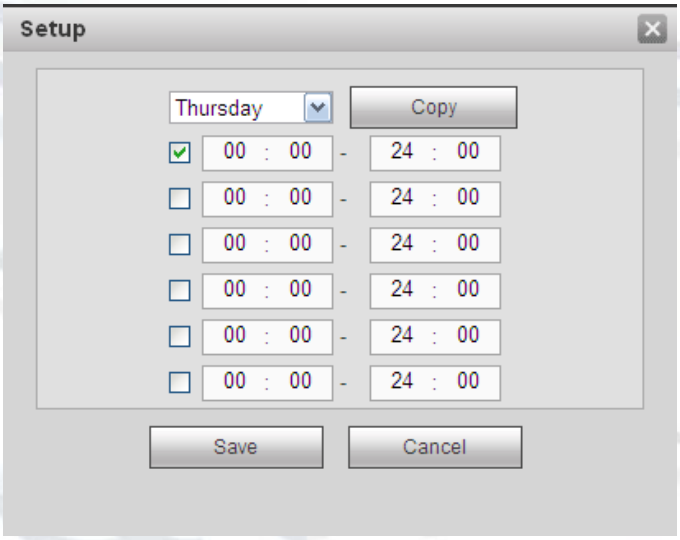

Figure 5-58

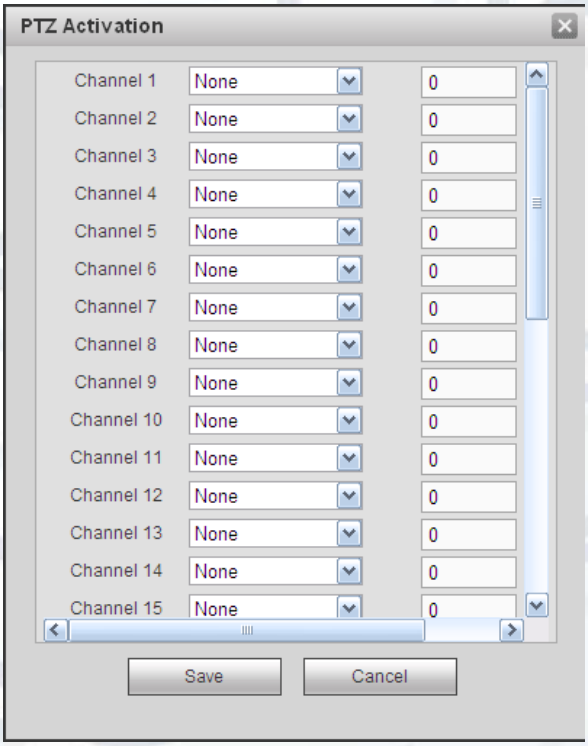

Figure 5-59

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable this function. Please select a channel from the dropdown list.
Period	This function becomes activated in the specified periods. There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the

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Parameter	Function
	whole week. Click OK button, system goes back to local alarm interface, please click save button to exit.
Anti-dither	System only memorises one event during the anti-dither period. The value ranges from 5s to 600s.
Sensor type	There are two options: NO/NC.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set alarm record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre).
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to click setup button to select tour channel. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. See Figure 5-53.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 5-59.
Snapshot	Click setup button to select snapshot channel. See Figure 5-54.

5.8.3.2.2 Net Alarm

The network alarm interface is shown as in Figure 5-60.

Network alarm refers to the alarm signal from the network. System does not anti-dither and sensor type setup. For setup information, please refer to chapter 5.8.3.2.1.

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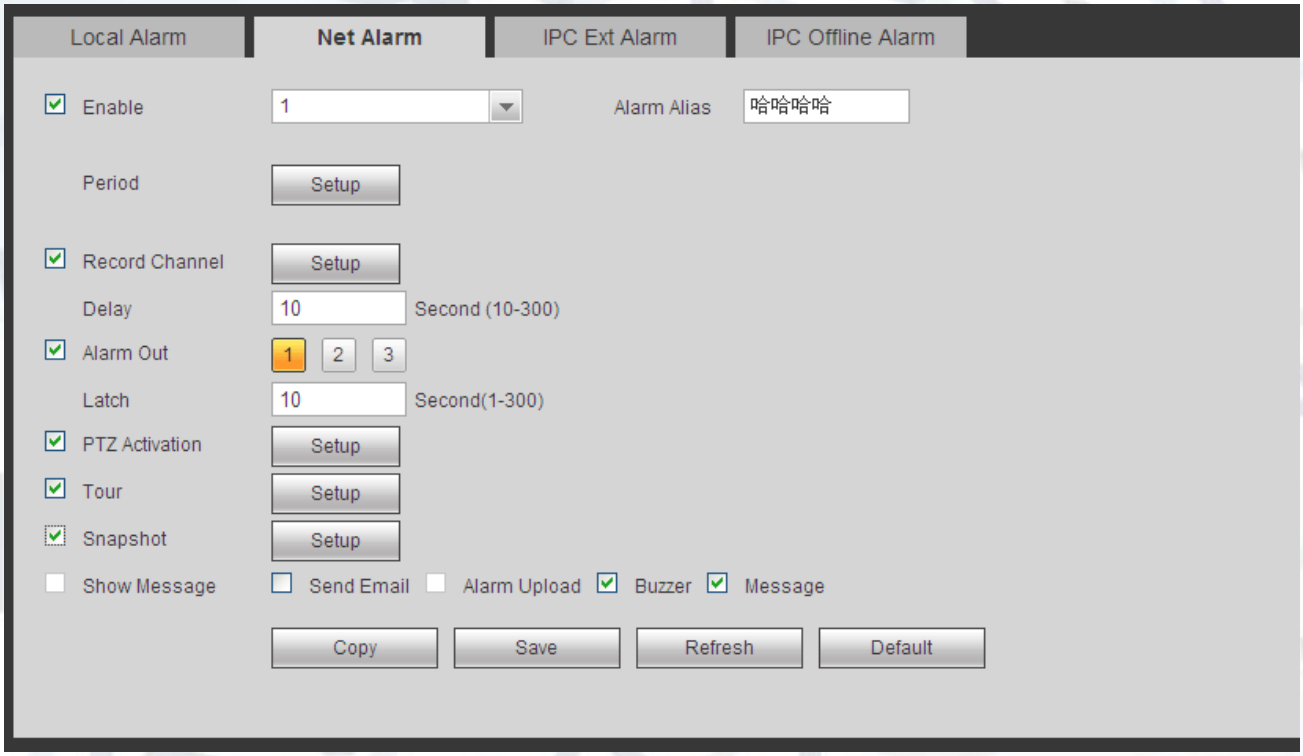

Figure 5-60

5.8.3.2.3 IPC external alarm

The IPC external alarm interface is shown as in Figure 5-61. Network alarm refers to the alarm signal from the network. System does not anti-dither and sensor type setup. For setup information, please refer to chapter 5.8.3.2.1.

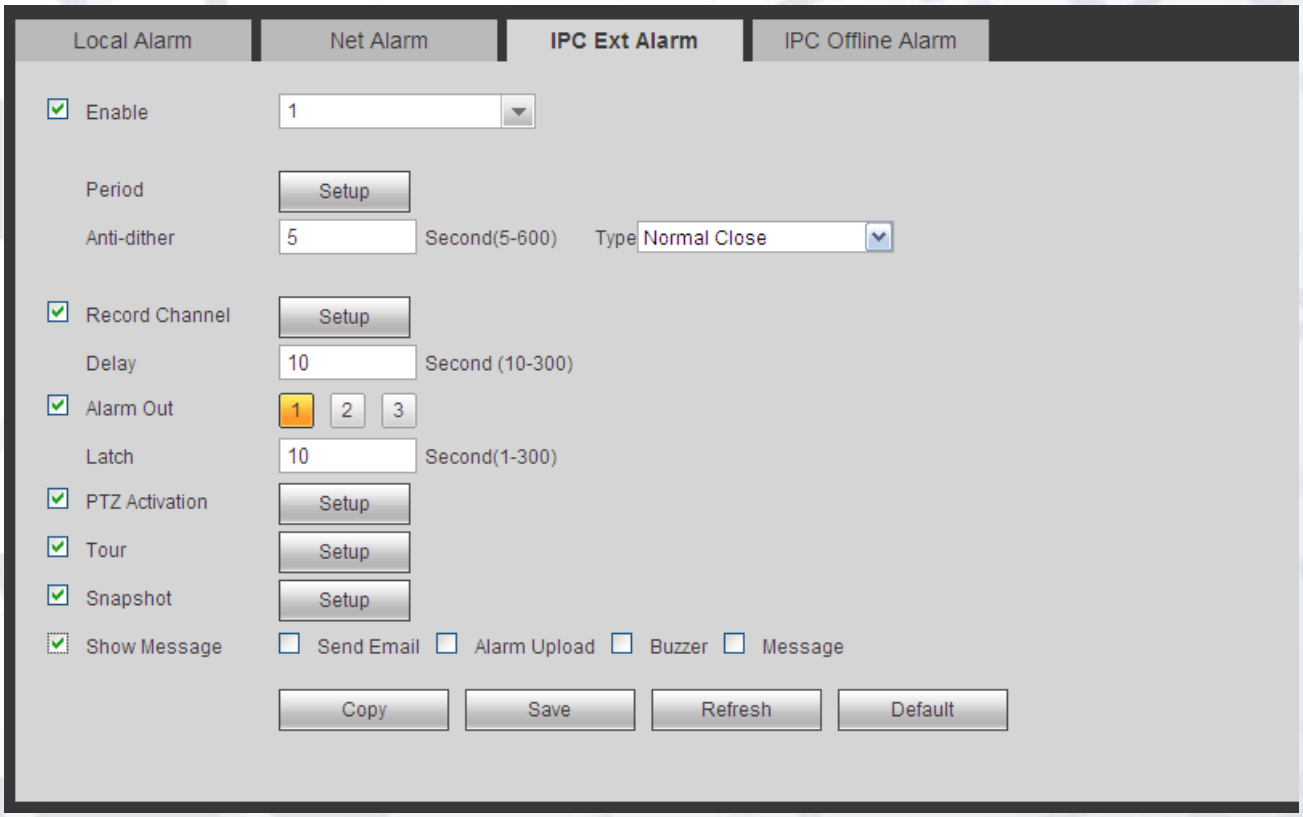

Figure 5-61

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5.8.3.2.4 IPC Offline Alarm

The IPC offline alarm interface is shown as in Figure 5-62.

System can generate an alarm once the network camera is offline. For setup information, please refer to chapter 5.8.3.2.1.

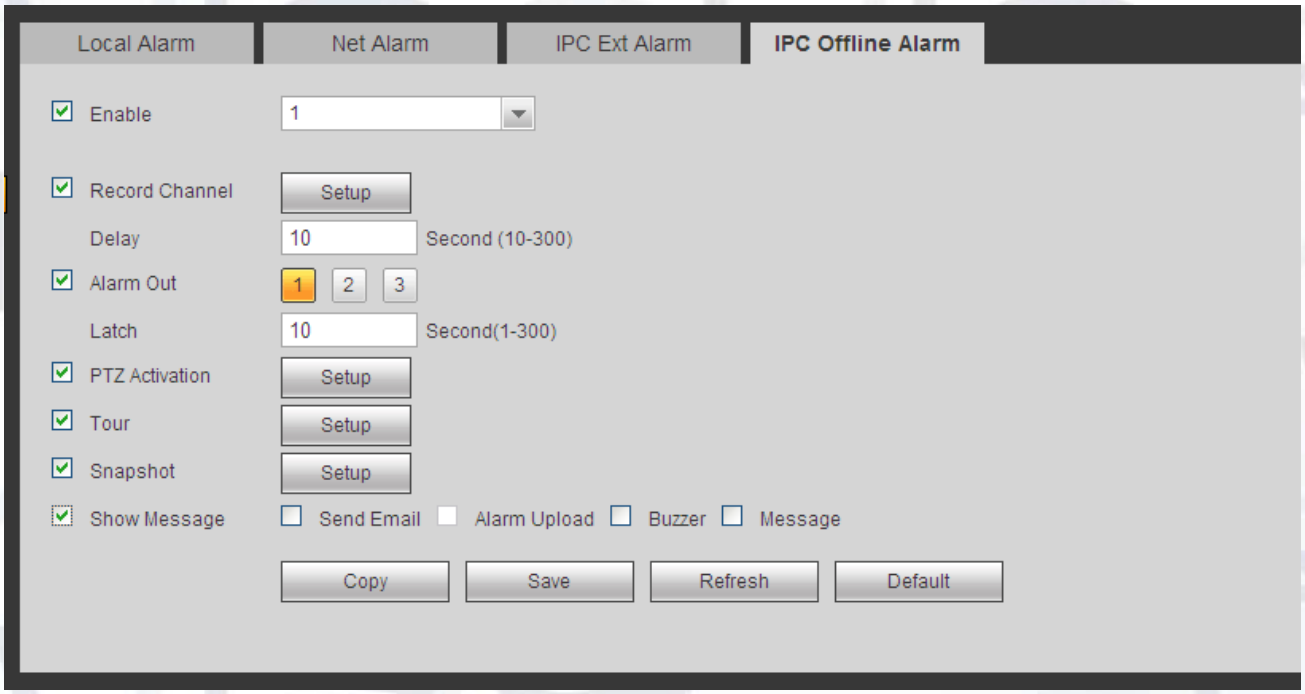

Figure 5-62

5.8.3.3 Abnormality

It includes six types: No disk, disk error, disks no space, disconnect, IP conflict, MAC conflict. See Figure 5-63 through Figure 5-68.

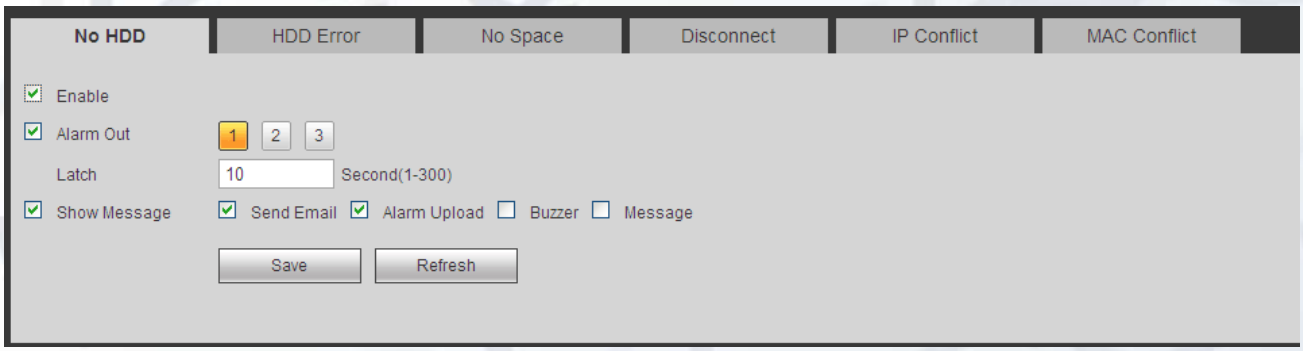

Figure 5-63

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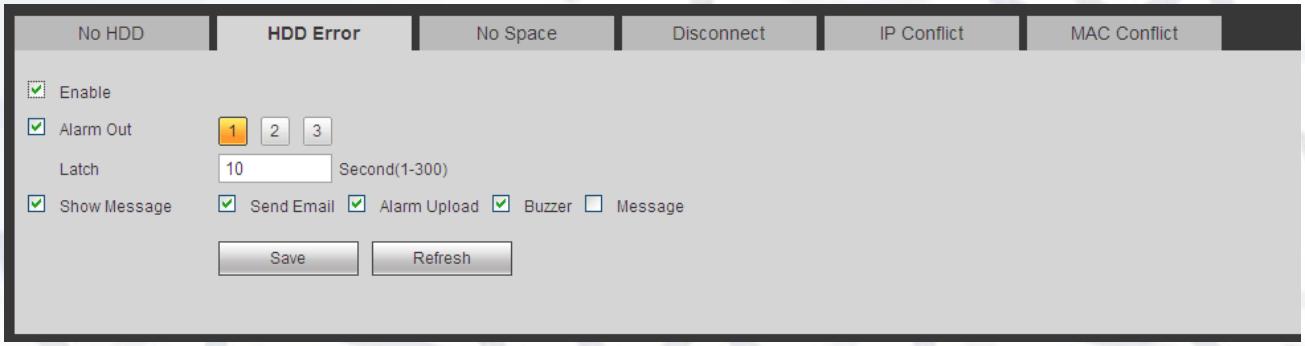

Figure 5-64

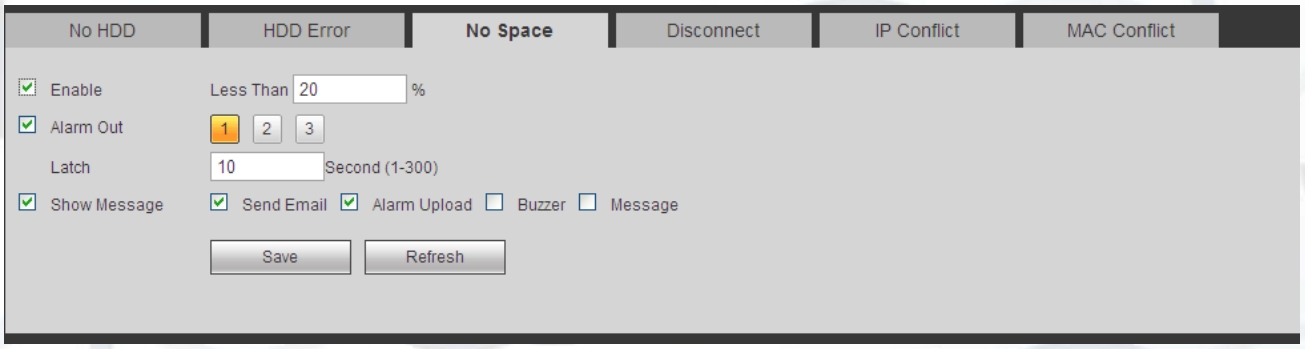

Figure 5-65

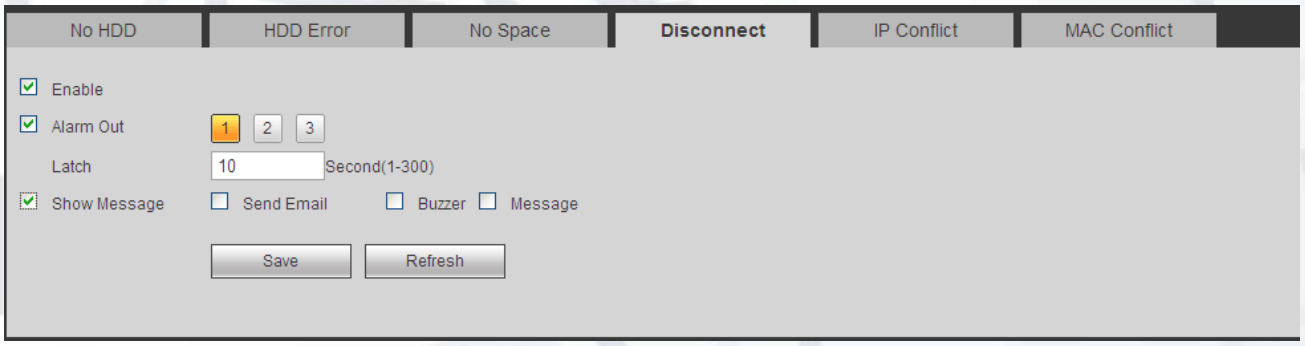

Figure 5-66

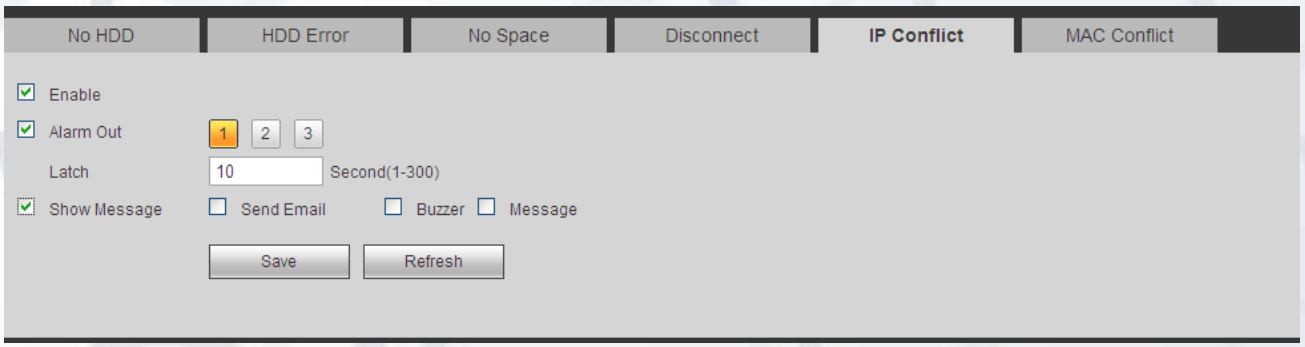

Figure 5-67

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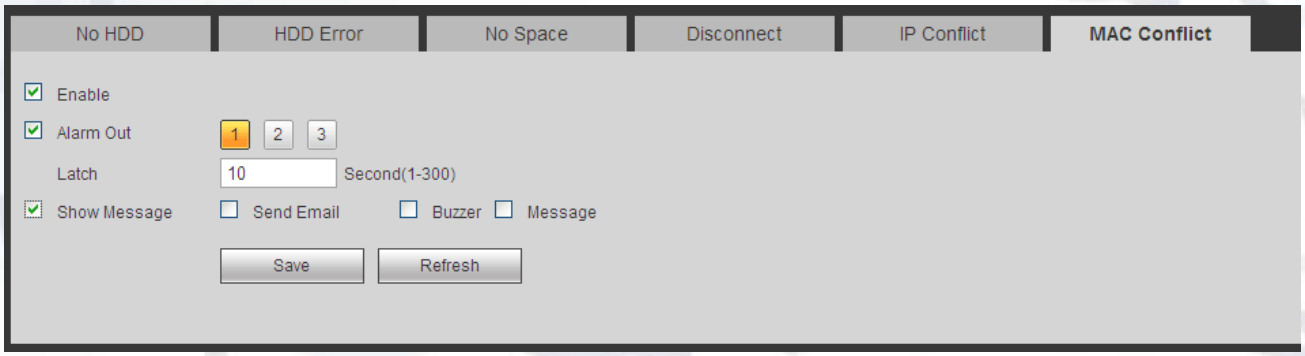

Figure 5-68

Please refer to the following sheet for detailed information:

Parameter	Function
Event Type	• The abnormal events include: No disk, disk error, disk no space, net disconnection, IP conflict and MAC conflict. • You can set one or more items here. • Less than: You can set the minimum percentage value here (For disk not space only). The device can alarm when capacity is not sufficient. • You need to draw a circle to enable this function.
Enable	Check the box here to enable selected function.
Alarm Out	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Latch	The alarm output can delay for the specified time after an alarm stops. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.

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5.8.4 Storage

5.8.4.1 Schedule

In this interfaces, you can add or remove the schedule record setup. See Figure 5-69.

There are four record modes: general (auto), motion detect, alarm and MD&alarm. There are six periods in one day.

You can view the current time period setup from the color bar:

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot..
- Red color stands for the alarm record/snapshot.
- Blue color stands for MD&alarm record/snapshot.

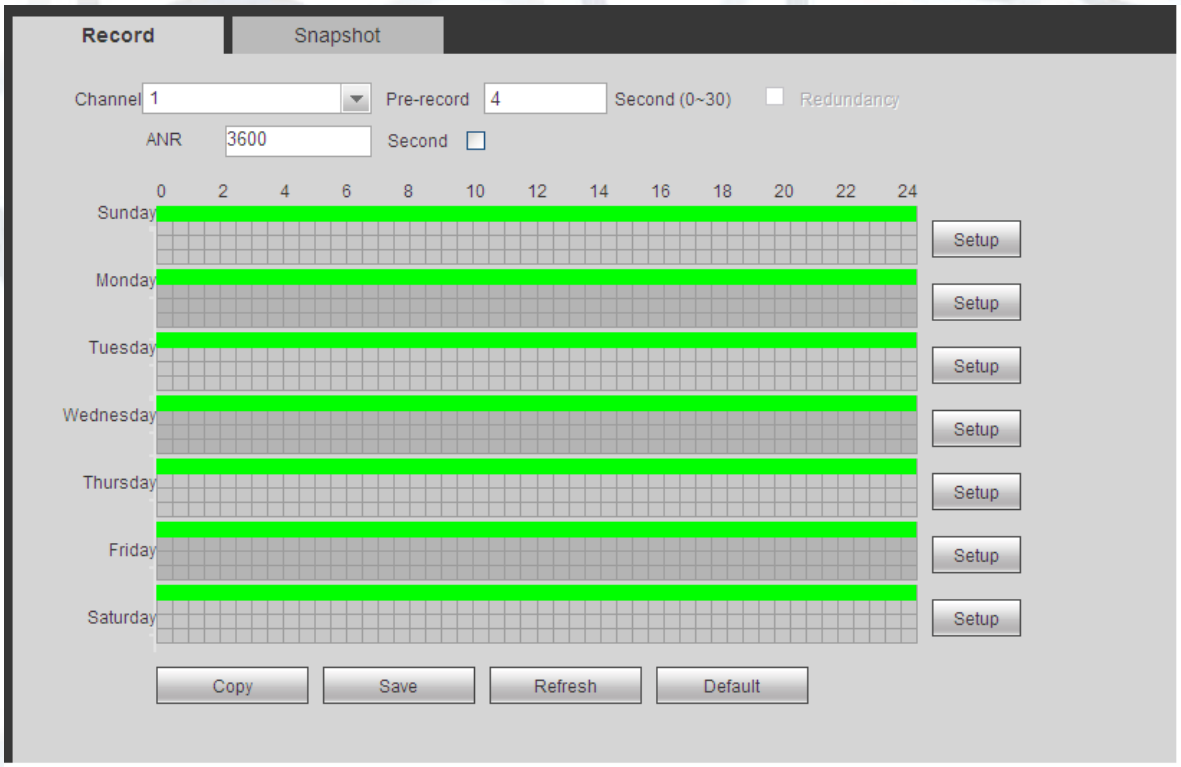

Figure 5-69

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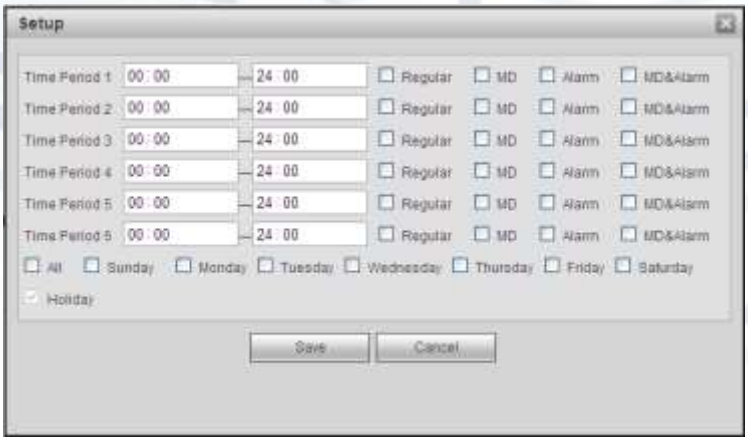

Figure 5-70

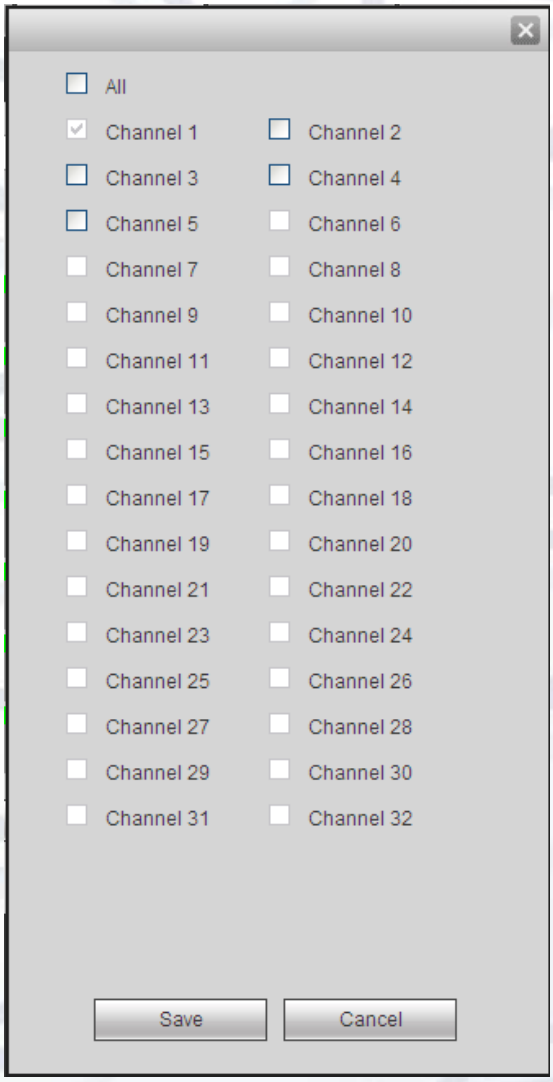

Figure 5-71

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Pre-record	Please input pre-record time here. The value ranges from 0 to 30.
Redundancy	Check the box here to enable redundancy function. **Please note this function is null if there is only one HDD.**
Snapshot	Check the box here to enable snapshot function.
Holiday	Check the box here to enable holiday function.
Setup	Click the Setup button, you can set record period. See Figure 5-70. There are six periods in one day. If you do not check the date at the bottom of the interface, current setup is for today only. Please click Save button and then exit.
Copy	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 5-71. You can see current channel name is grey such as channel 1. Now you can select the channel you want to paste such as channel 5/6/7. If you want to save current setup of channel 1 to all channels, you can click the first box “ALL”. Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

5.8.4.2 HDD Manager

5.8.4.2.1 Local Storage

The local interface is shown as in Figure 5-72. Here you can see HDD information. You can also operate the read-only, read-write, redundancy (if there are more than on HDD) and format operation.

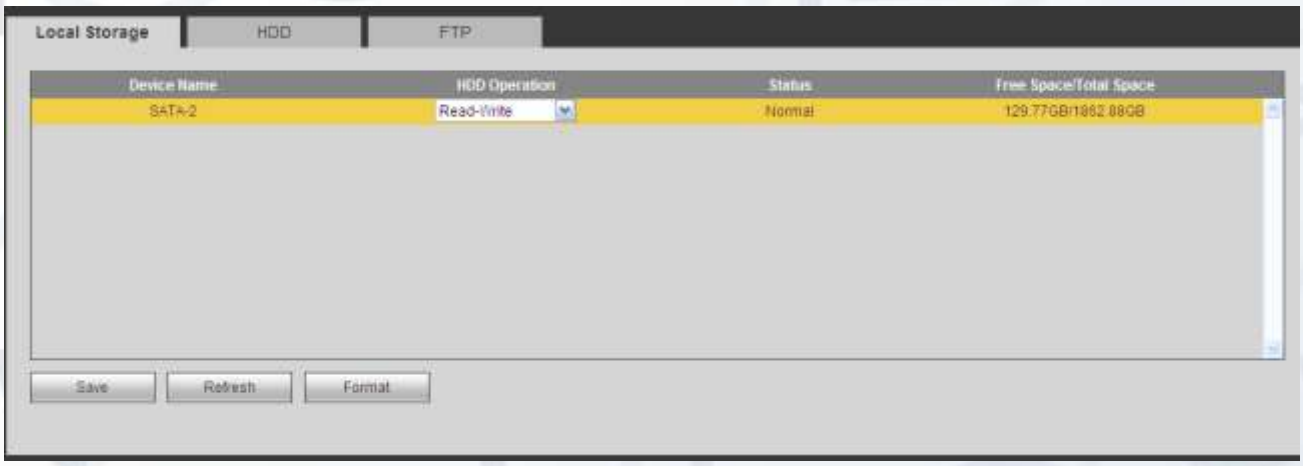

Figure 5-72

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5.8.4.2.2 HDD

The HDD interface is to set HDD group. See Figure 5-73.

Figure 5-73

5.8.4.2.3 FTP

The FTP interface is to set FTP information. See Figure 5-74.

Please set the FTP as your remote storage location. System can save record file or snapshot picture to the FTP once the network is offline or malfunction.

Figure 5-74

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5.8.4.3 Record Control

The interface is shown as in Figure 5-75.

Figure 5-75

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Here you can view channel number. The number displayed here is the max channel amount of your device.
Status	There are three statuses: schedule, manual and stop.
Schedule	System enables auto record function as you set in record schedule setup (general, motion detect and alarm).
Manual	It has the highest priority. Enable corresponding channel to record no matter what period applied in the record setup.
Stop	Stop current channel record no matter what period applied in the record setup.
Start all/ stop all	Check the corresponding All button; you can enable or disable all channels record.

5.8.4.4 Storage

5.8.4.4.1 Main Stream

The main stream interface is shown as in Figure 5-76. Here you can set corresponding HDD group to save main stream.

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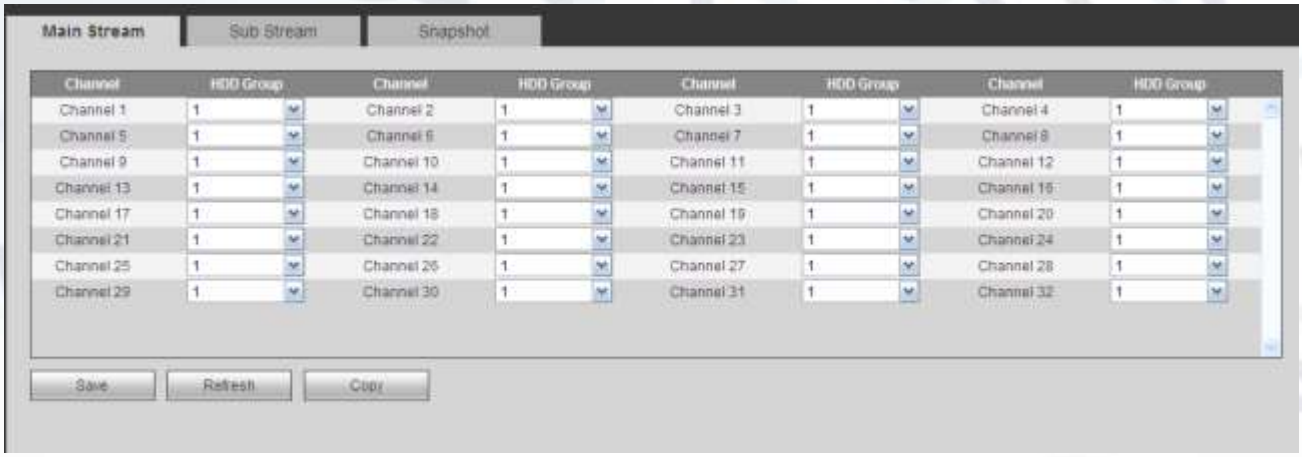

Figure 5-76

5.8.4.4.2 Sub Stream

The sub stream interface is shown as in Figure 5-77.

Here you can set corresponding HDD group to save sub stream.

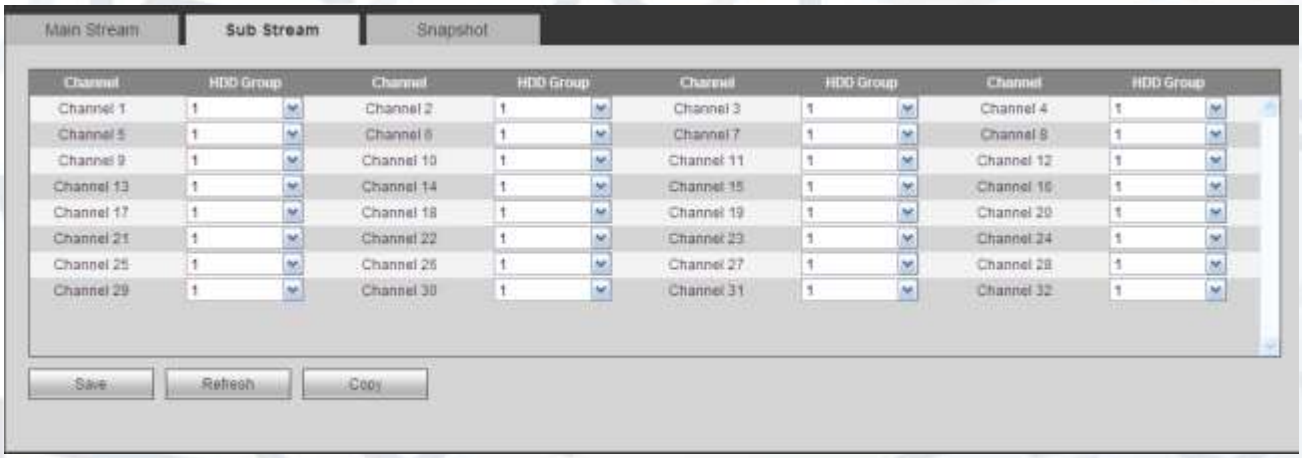

Figure 5-77

5.8.4.4.3 Snapshot

The snapshot interface is shown as in Figure 5-78. Here you can set corresponding HDD group to save snapshot picture.

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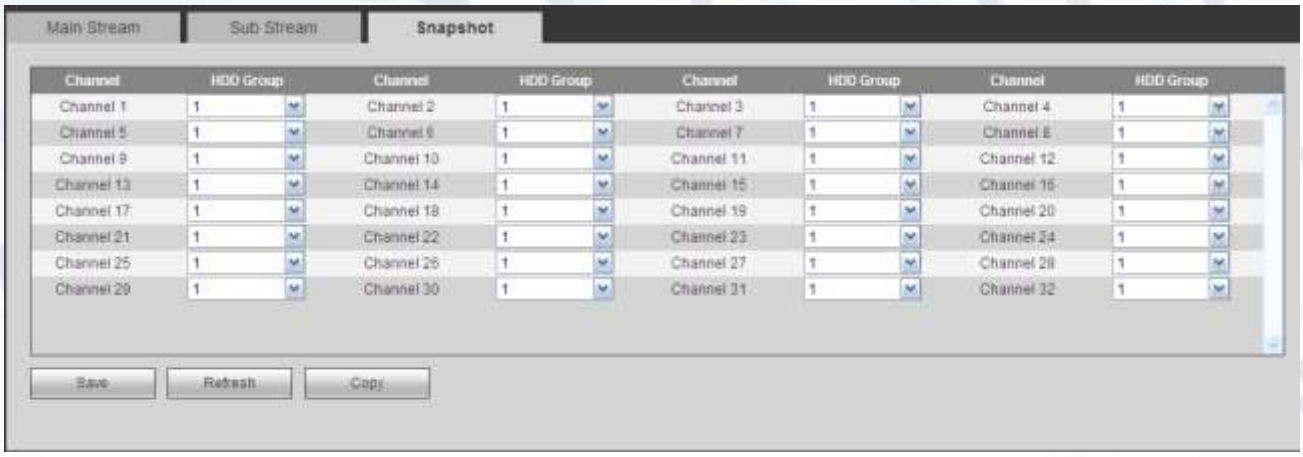

Figure 5-78

5.8.5 Setting

5.8.5.1 General

The general interface includes general, date/time and holiday setup.

5.8.5.1.1 General

The general interface is shown as in Figure 5-79.

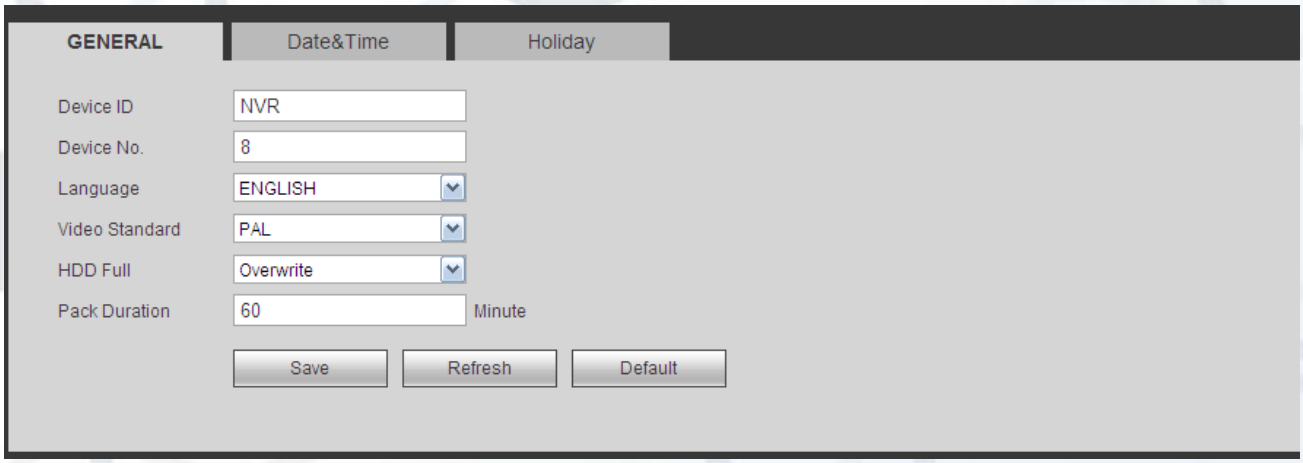

Figure 5-79

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Please refer to the following sheet for detailed information:

Parameter	Function
Device ID	This is to set device name.
Device No.	It is device channel number.
Language	You can select the language from the dropdown list. **Please note the device needs to reboot to get the modification activated.**
Video Standard	This is to display video standard such as PAL.
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack duration	Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

5.8.5.1.2 Date and time

The date and time interface is shown as in Figure 5-80

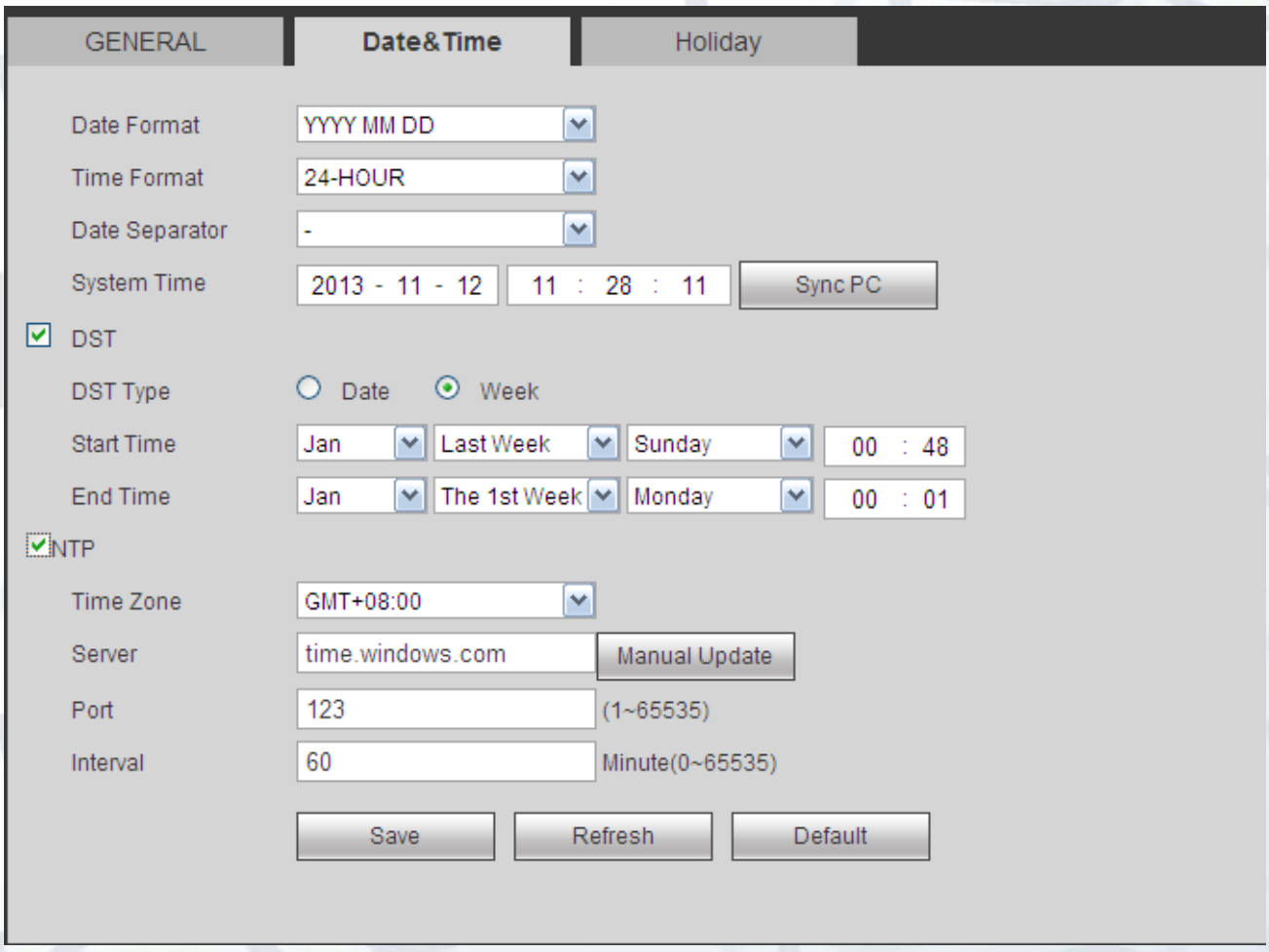

Figure 5-80

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Please refer to the following sheet for detailed information:

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	This is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	This is to set the time server port.
Interval	This is to set the sync periods between the device and the time server.

5.8.5.1.3 Holiday Setup

Holiday setup interface is shown as in Figure 5-81.

Here you can click Add holidays box to add a new holiday and then click Save button to save.

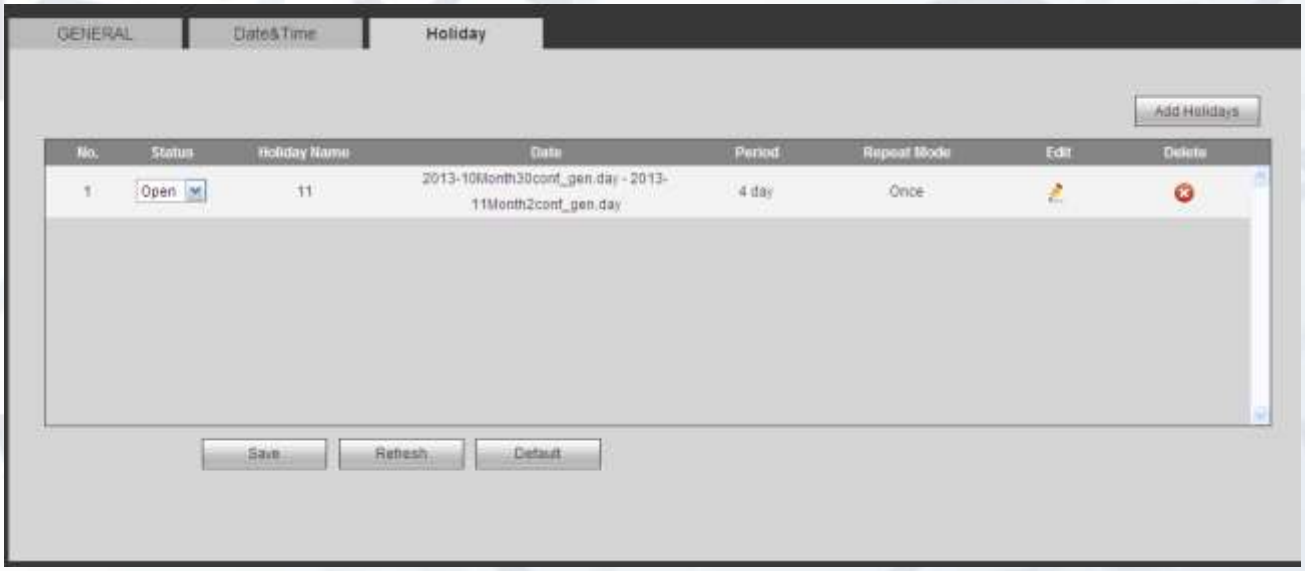

Figure 5-81

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5.8.5.2 Account

Notes:

- For the character in the following user name or the user group name, system max supports 6-digits. The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount default setup is 64 and the group amount default setup is 20. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

5.8.5.2.1 User name

In this interface you can add/remove user and modify user name. See Figure 5-82.

Figure 5-82

Add user: This is to add a name to group and set the user rights. See Figure 5-83.

There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights.

Hidden user “default” is for system interior use only and cannot be deleted. When there is no login user, hidden user “default” automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user. Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

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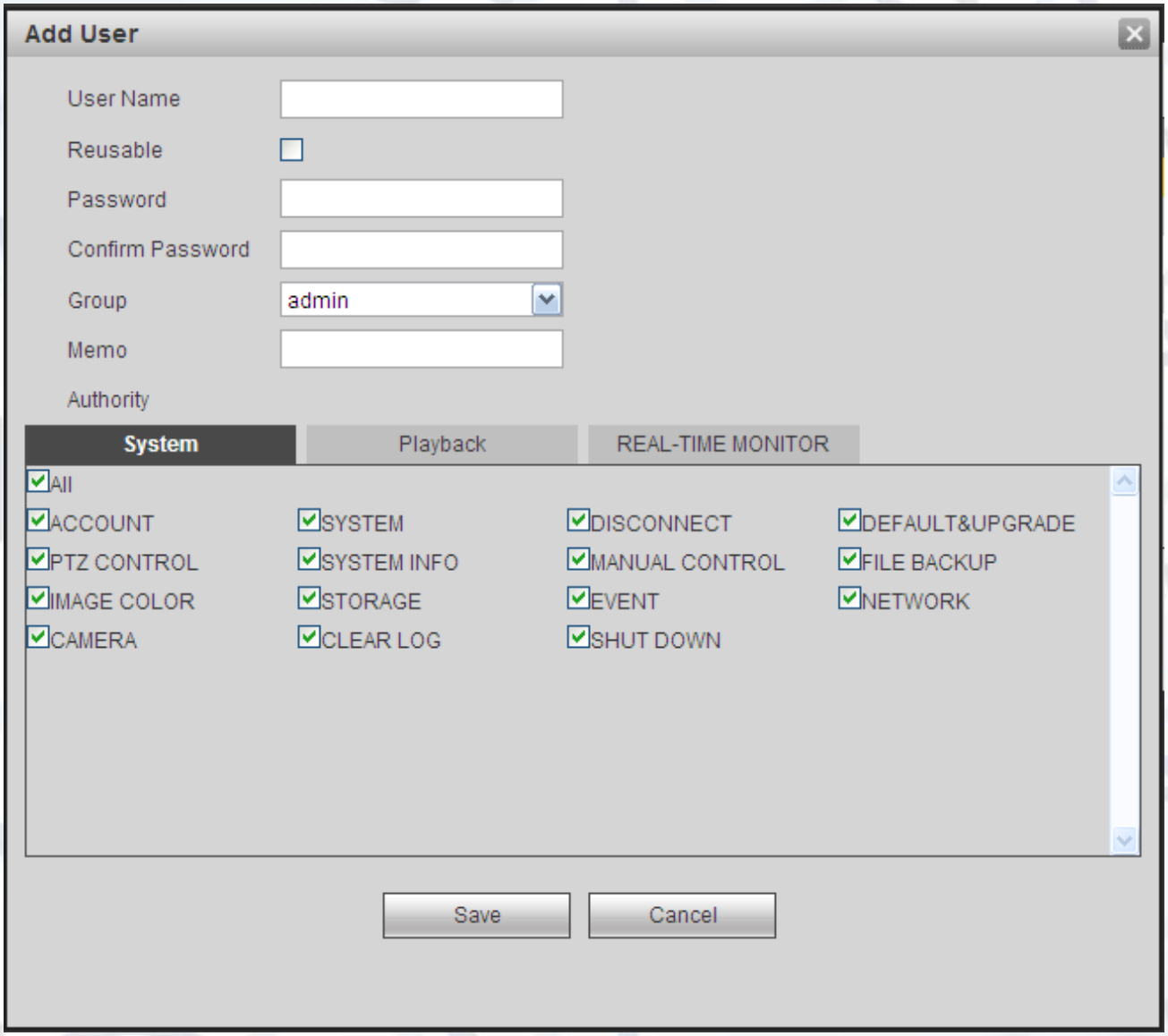

Figure 5-83

Modify user

This is to modify the user property, belonging group, password and rights. See Figure 5-84.

Modify password

This is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

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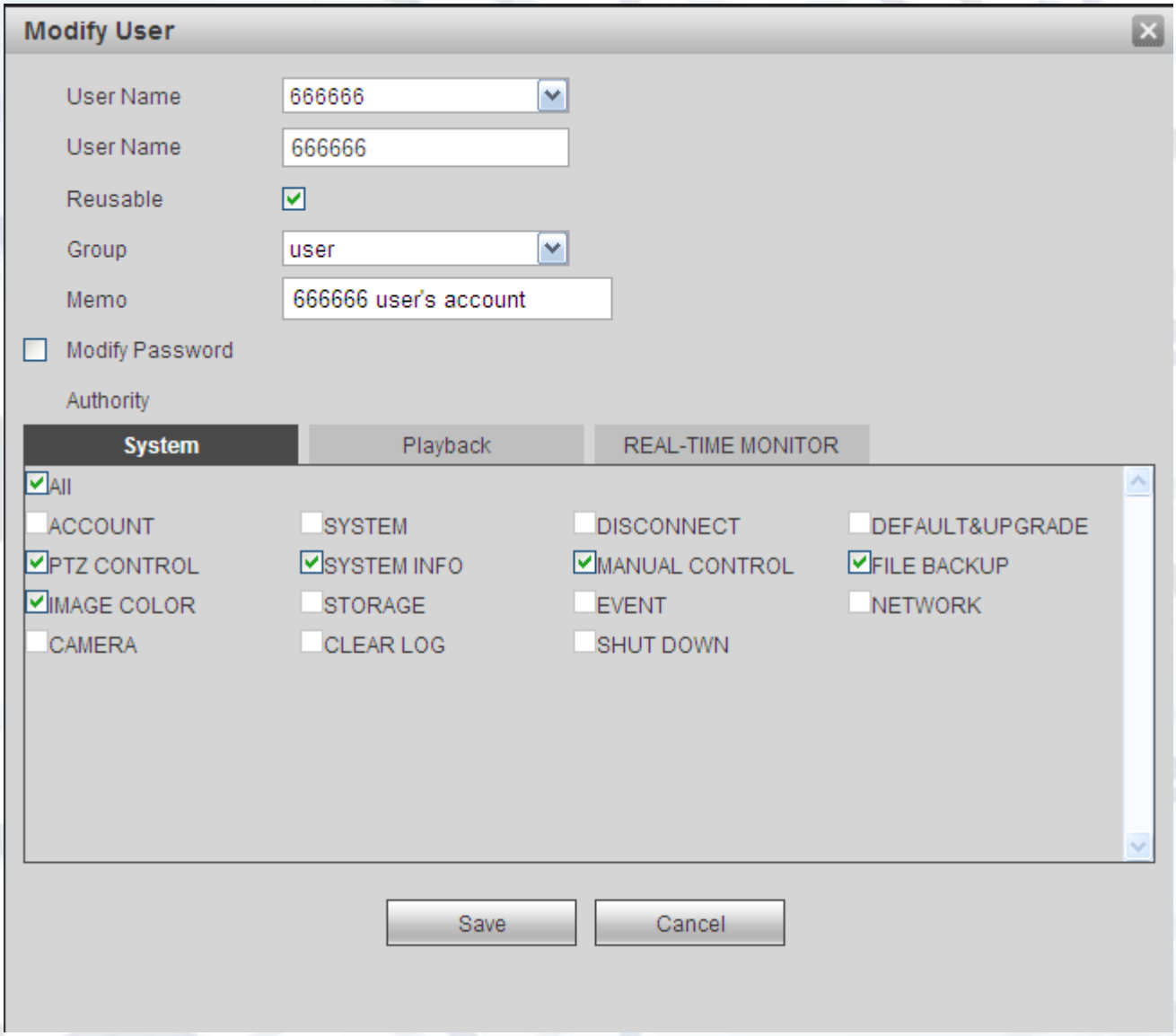

Figure 5-84

5.8.5.2.2 Group

The group management interface can add/remove group, modify group password , etc.

The interface is shown as in Figure 5-85.

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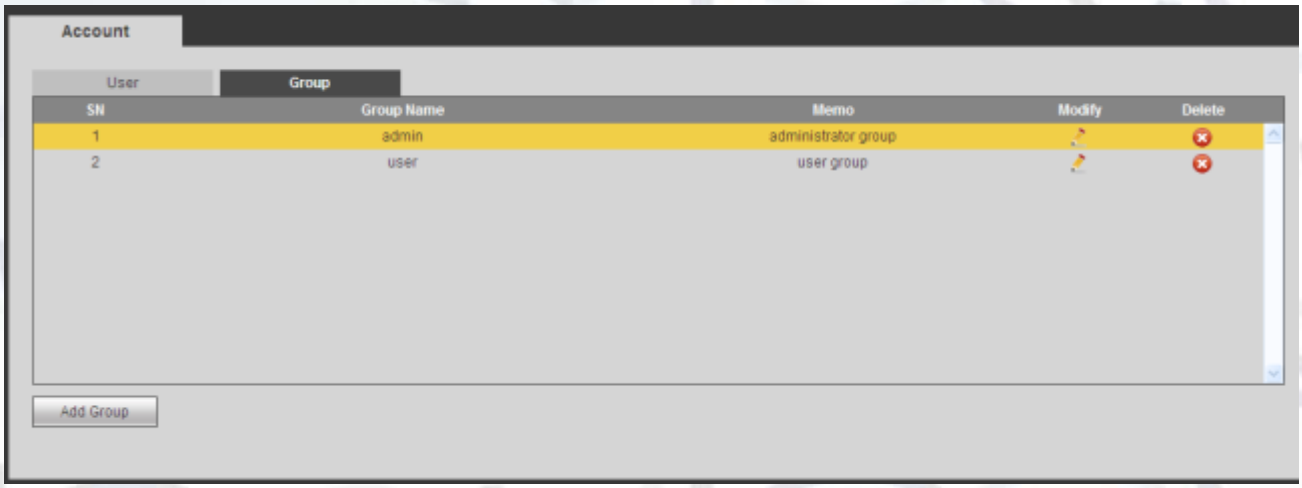

Figure 5-85

Add group: This is to add group and set its corresponding rights. See Figure 5-86.

Please input the group name and then check the box to select the corresponding rights. It includes: shutdown/reboot device, live view, record control, PTZ control , etc.

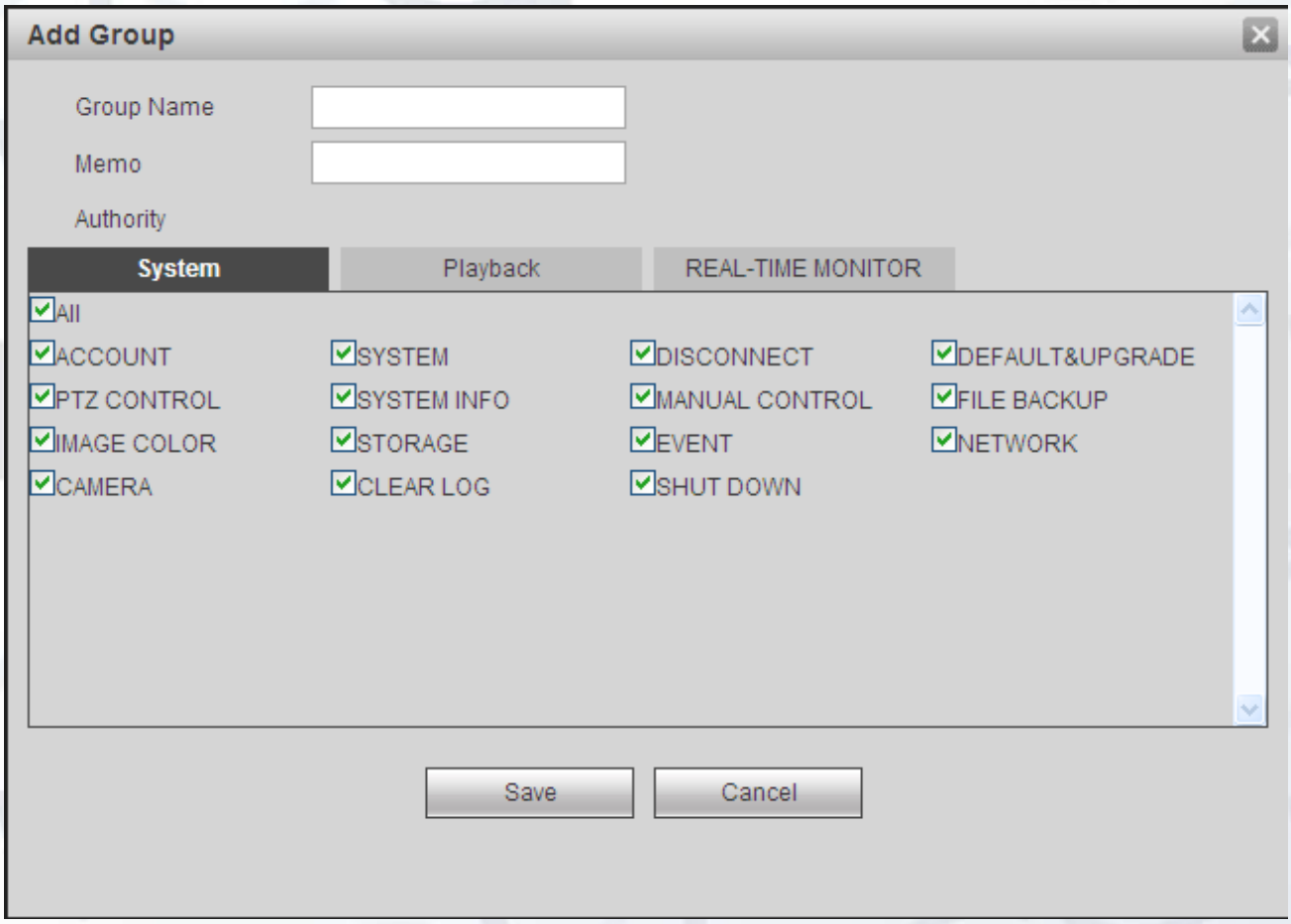

Figure 5-86

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Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-87.

Here you can modify group information such as remarks and rights.

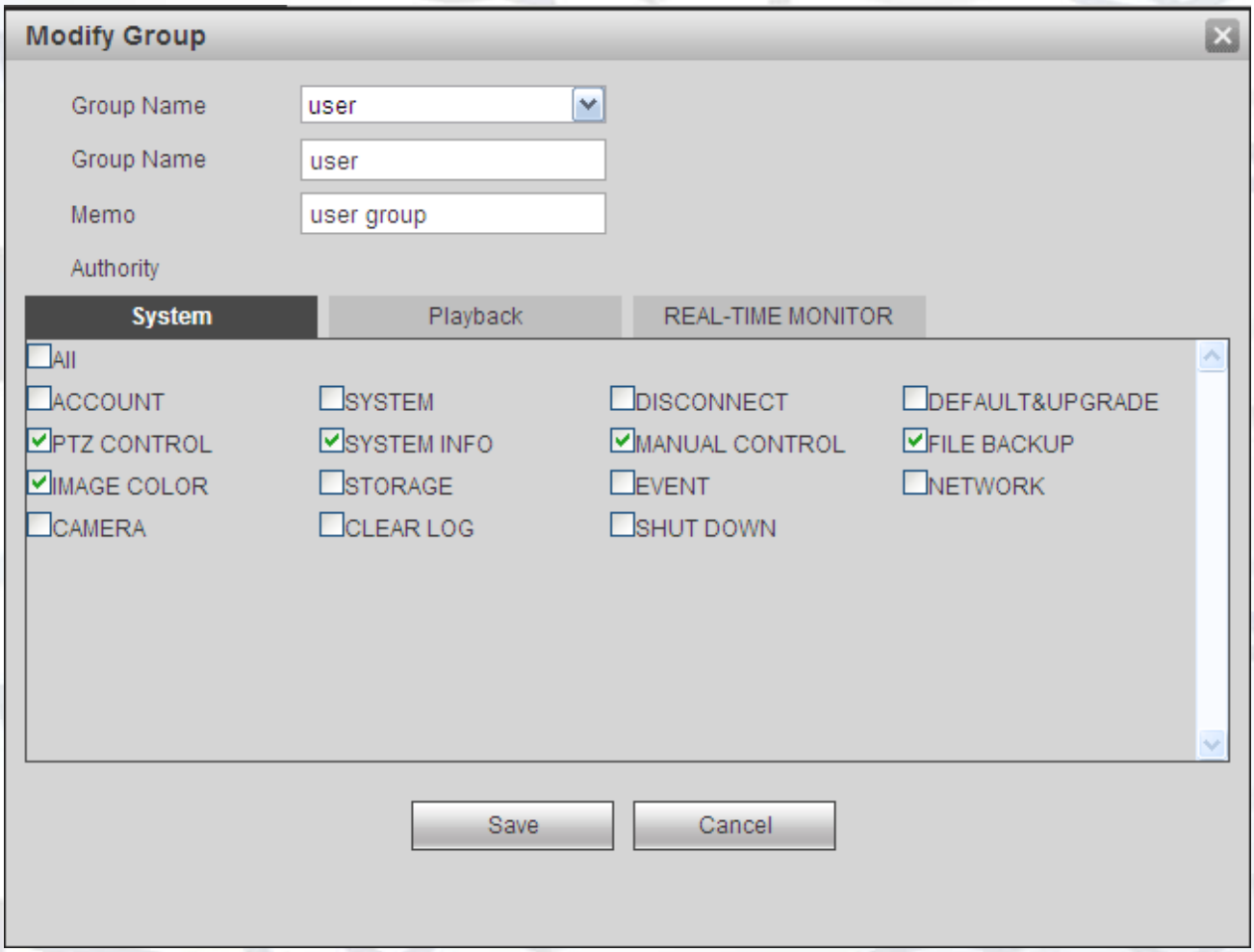

Figure 5-87

5.8.5.3 Display

Display interface includes GUI, TV adjust, Tour and zero-channel encoding.

5.8.5.3.1 Display

Here you can set background color and transparency level. See Figure 5-88.

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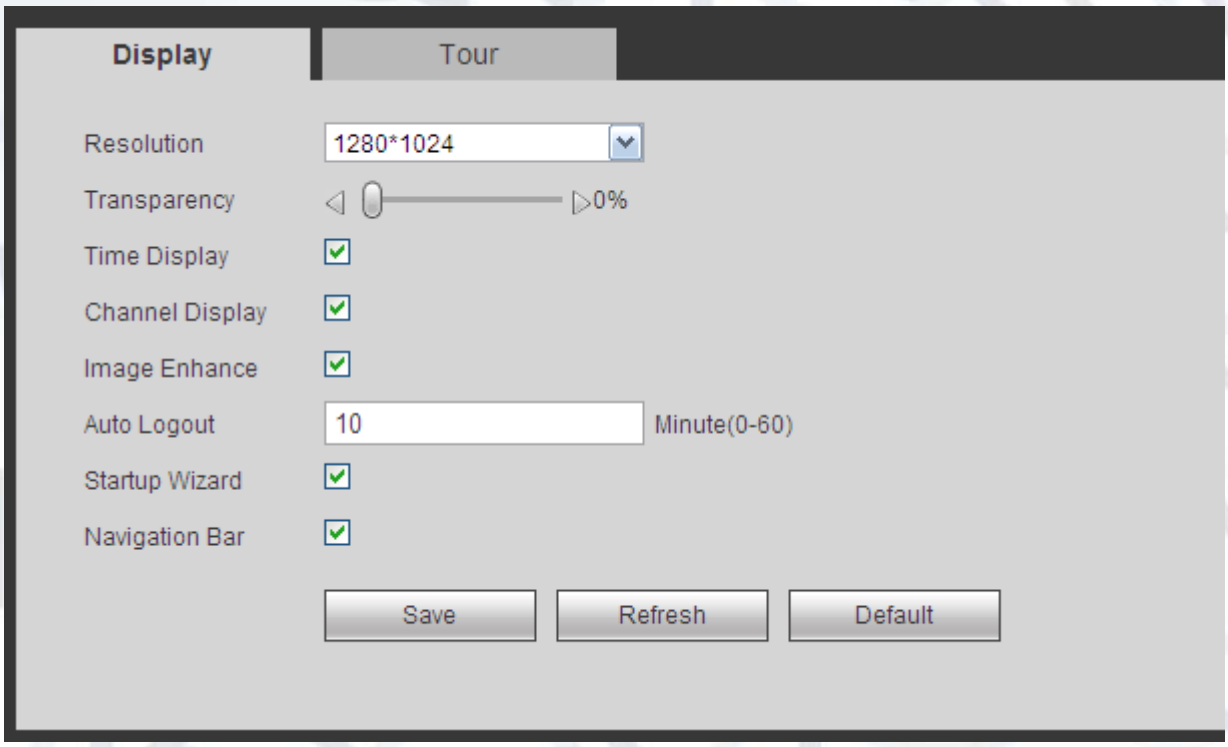

Figure 5-88

Please refer to the following sheet for detailed information:

Parameter	Function
Resolution	There are four options: 1920×1080,1280 × 1024(default),1280 × 720,1024×768. Please note the system needs to reboot to activate current setup.
Transparency	Here is for you to adjust transparency. The value ranges from 128 to 255.
Time title/channel title	Check the box here, you can view system time and channel number on the monitor video.
Image enhance	Check the box; you can optimize the margin of the preview video.

5.8.5.3.2 Tour

The tour interface is shown as in Figure 5-89. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

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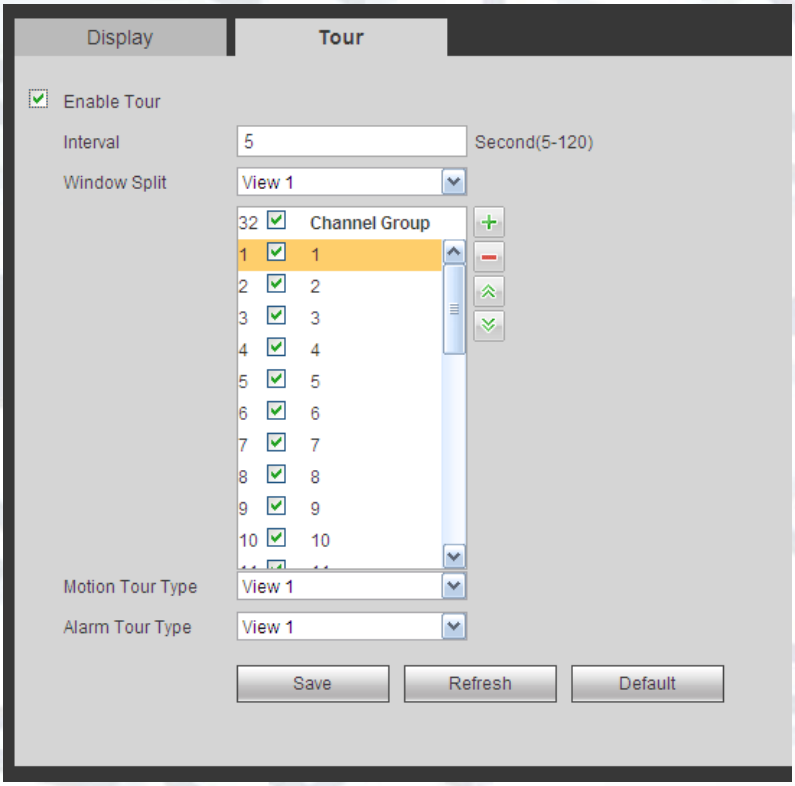

Figure 5-89

Please refer to the following sheet for detailed information.

Parameter	Function
Enable tour	Check the box here to enable tour function.
Interval	This is for you to adjust transparency. The value ranges from 5 to 120s. The default setup is 5s.
Split	Here you can set window mode and channel group. System can support 1/4/8/9/16/25/36-window according to device channel amount.
Motion tour/Alarm tour	Here you can set motion detect tour/alarm tour window mode. System supports 1/8-window now.

5.8.5.4 Alarm Out

The alarm output interface is shown as below. See Figure 5-90

Here you can set alarm output mode: auto/manual/stop.

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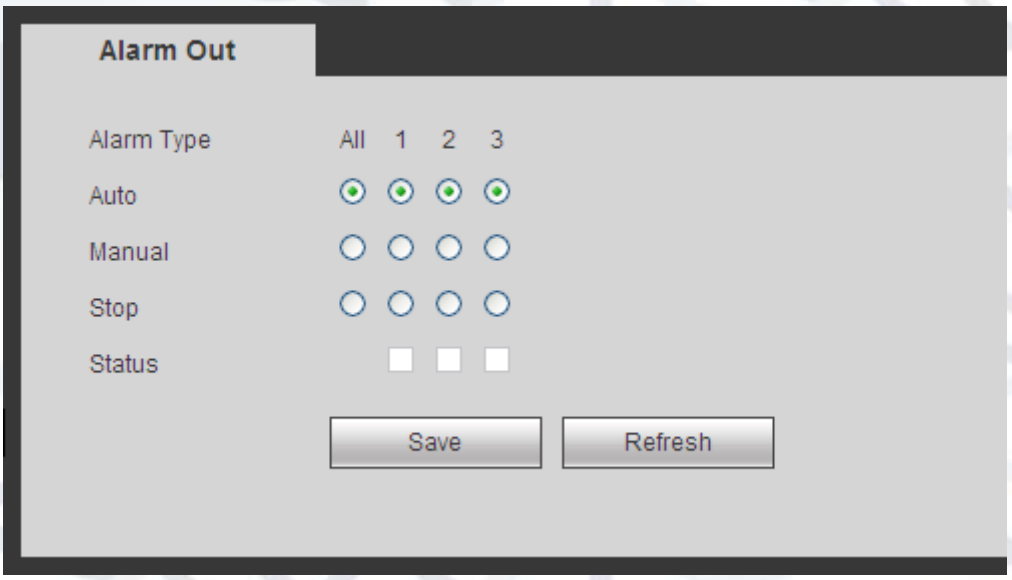

Figure 5-90

5.8.5.5 Default

The default setup interface is shown as in Figure 5-91.

Here you can select Network/Event/Storage/Setting/Camera. Or you can check the All box to select all items.

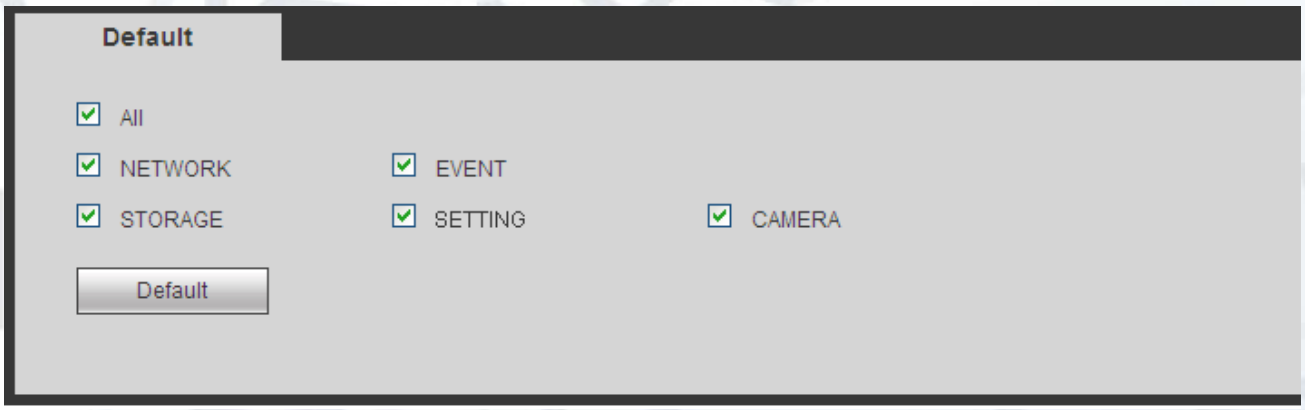

Figure 5-91

5.8.5.6 Import/Export

The interface is shown as in Figure 5-92. This interface is for you to export or import the configuration files.

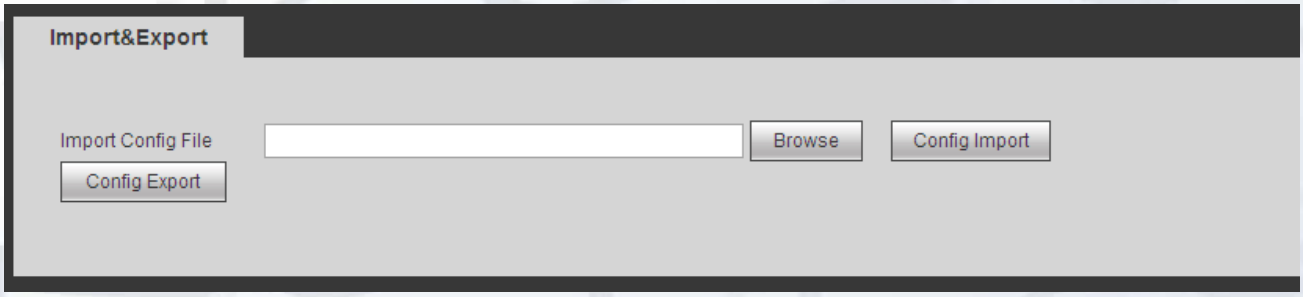

Figure 5-92

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Please refer to the following sheet for detailed information:

Parameter	Function
Browse	Click to select import file.
Import	This is to import the local setup files to the system.
Export	This is to export the corresponding WEB setup to your local PC.

5.8.5.7 Auto maintain

The auto maintain interface is shown as in Figure 5-93.

Here you can select auto reboot and auto delete old files interval from the dropdown list.
If you want to use the auto delete old files function, you need to set the file period.

Click Manual reboot button, you can restart device manually.

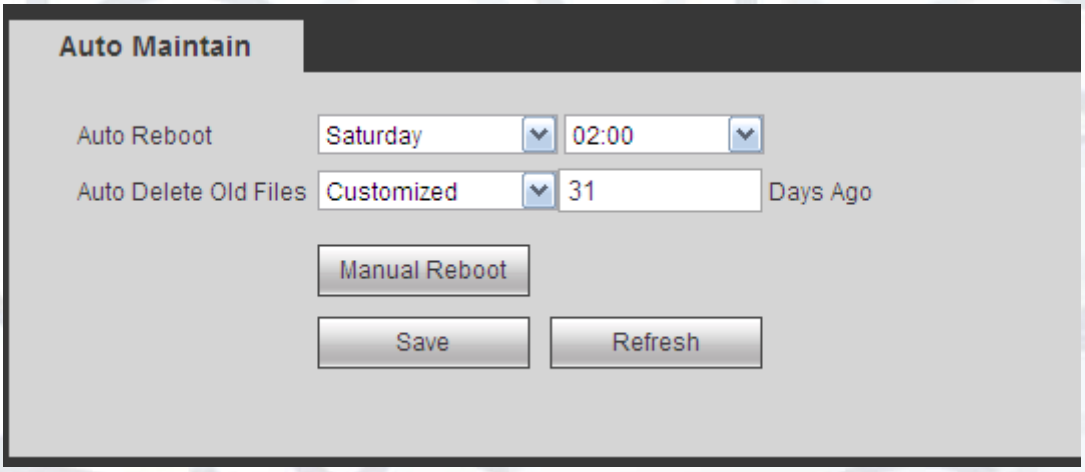

Figure 5-93

5.8.5.8 Upgrade

The upgrade interface is shown as in Figure 5-94.

Please select the upgrade file and then click the update button to begin update. Please note the file name shall be as *.bin. During the upgrade process, do not unplug the power cable, network cable, or shutdown the device.

IMPORTANT
Improper upgrade program may result in device malfunction! Please make sure the operation is operated under the supervision of the professional engineer!

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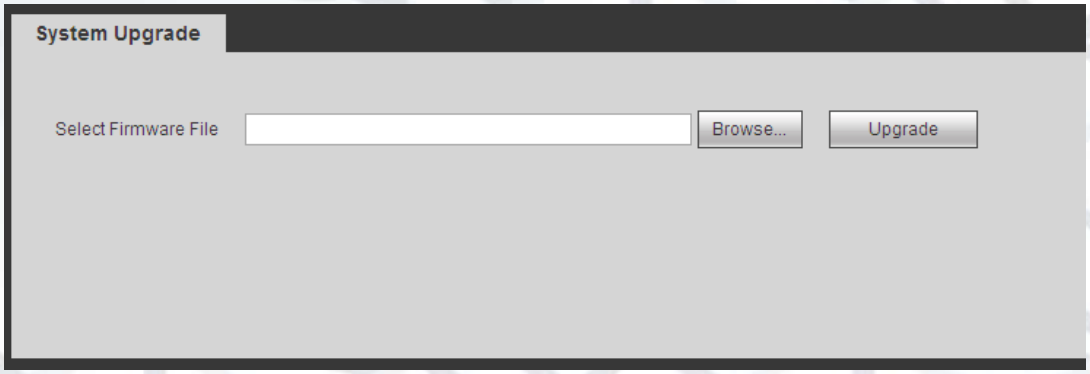

Figure 5-94

5.8.5.9 RS232

The RS232 interface is shown as in Figure 5-95.

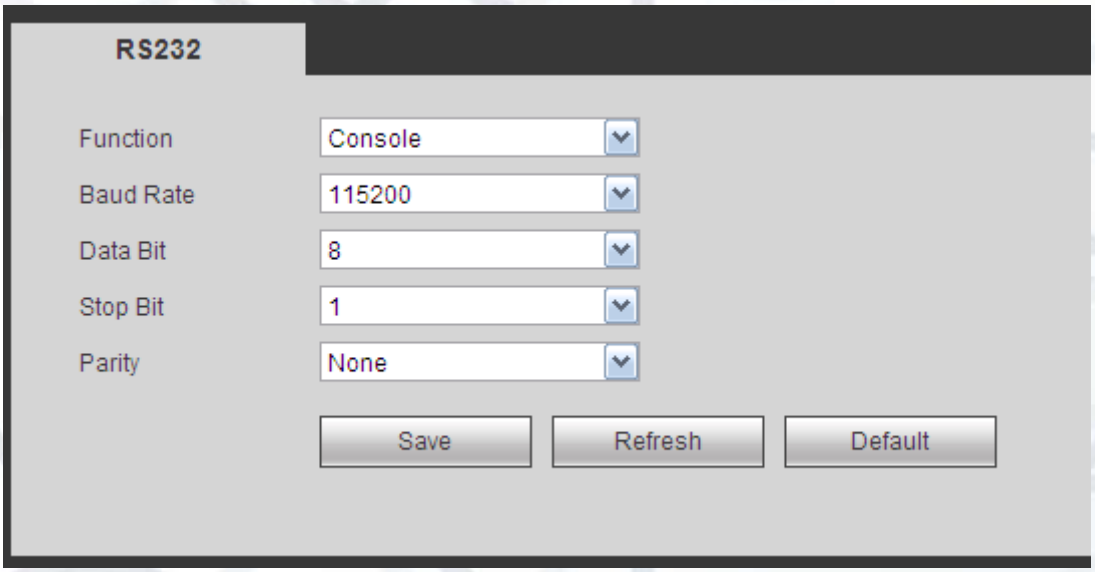

Figure 5-95

Please refer to the following sheet for detailed information:

Parameter	Function
Protocol	Select the corresponding dome protocol. Default setup is console.
Baud Rate	Select the baud rate. Default setup is 115200.
Data Bit	The value ranges from 5 to 8. Default setup is 8.
Stop bit	There are two options: 1/2. Default setup is 1.
Parity	There are five options: none/odd/even/space/mark. Default setup is none.

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5.8.5.10 PTZ

The PTZ interface is shown as in Figure 5-96 (Local) and Figure 5-97 (Remote).

Before setup, please check the following connections are right:

1. PTZ and decoder connection is right. Decoder address setup is right.
2. Decoder A (B) line connects with NVR A (B) line.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

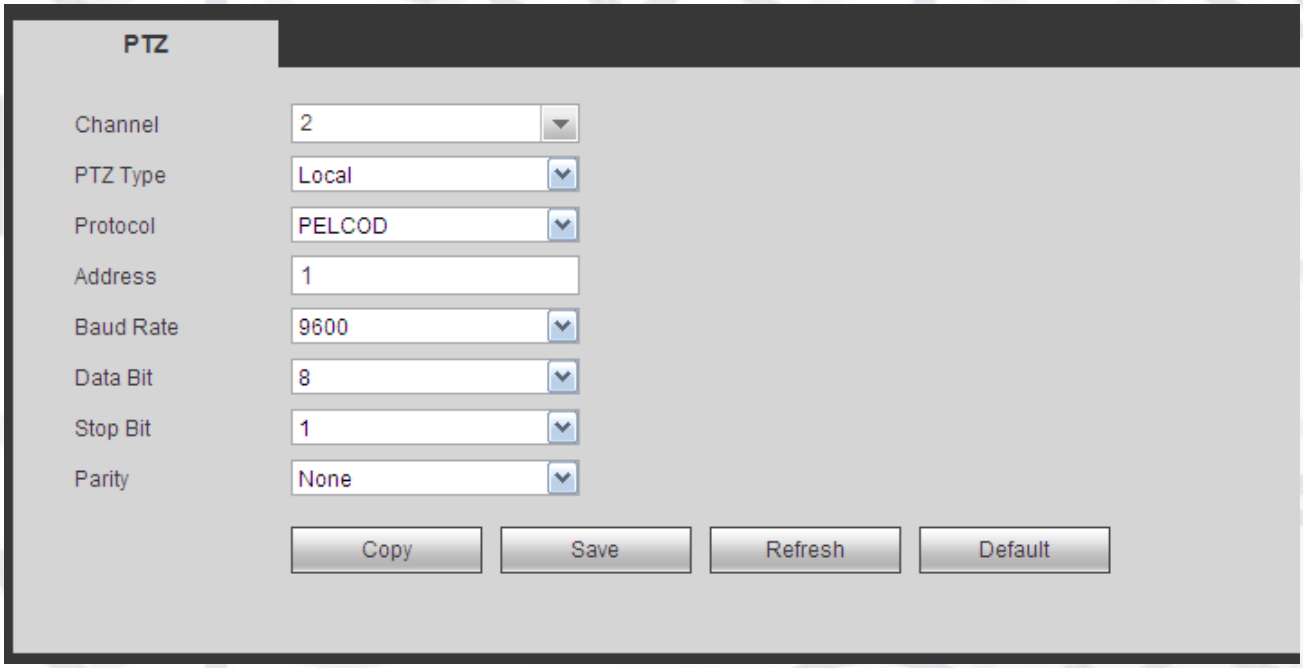

Figure 5-96

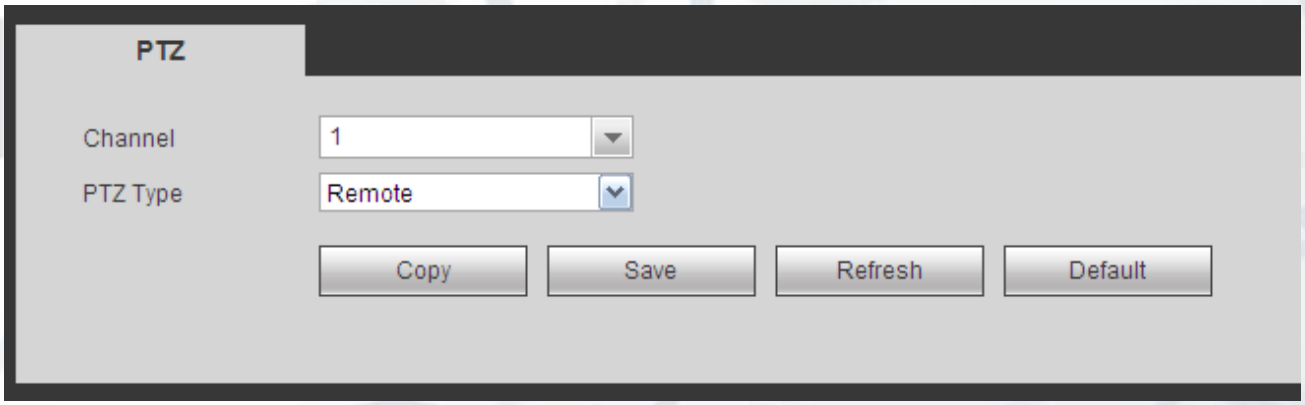

Figure 5-97

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Select speed dome connected channel.
PTZ Type	There are two options: local/remote. Please select remote type if you are connecting to the network PTZ.
Protocol	Select the corresponding dome protocol such as PELCOD.
Address	Set corresponding dome address. Default value is 1. **Please note your setup here shall comply with your dome address; otherwise you cannot control the speed dome.**
Baud Rate	Select the dome baud rate. Default setup is 9600.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

5.9 Information

5.9.1 Version

The version interface is shown as in Figure 5-98.

Here you can view record channel, alarm input/output information, software version, release date, etc. Please note the following information is for reference only.

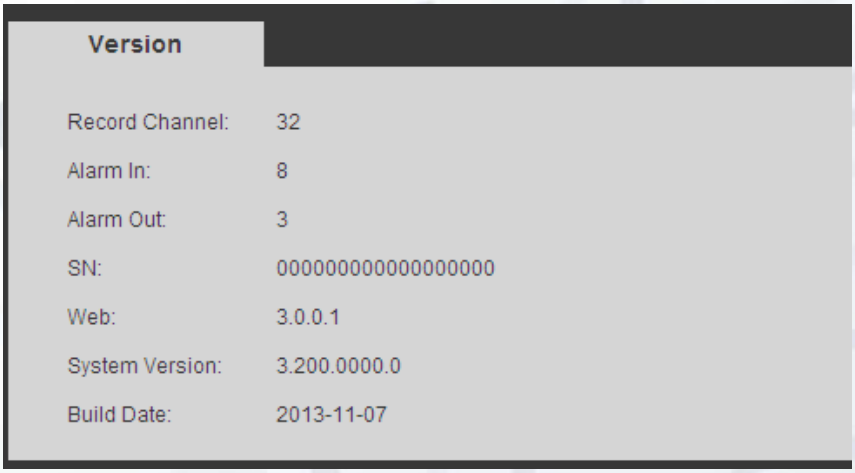

Figure 5-98

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5.9.2 Log

Here you can view system log. See Figure 5-99.

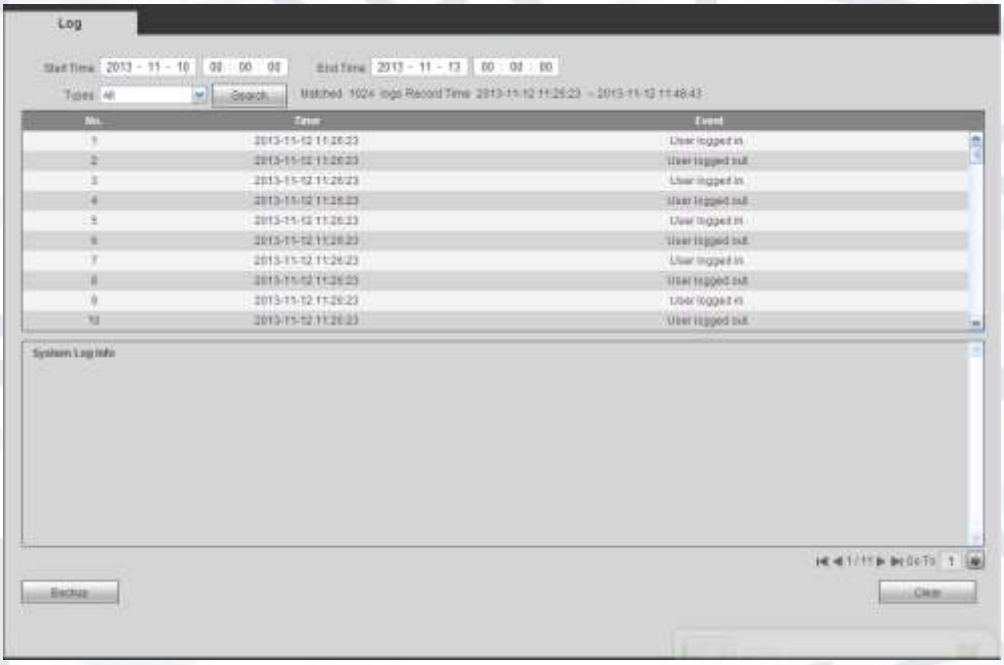

Figure 5-99

Please refer to the following sheet for log parameter information:

Parameter	Function
Type	Log types include: system operation, configuration operation, data operation, event operation, record operation, user management, log clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Detailed information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

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5.9.3 Online User

The online user interface is shown as in Figure 5-100.

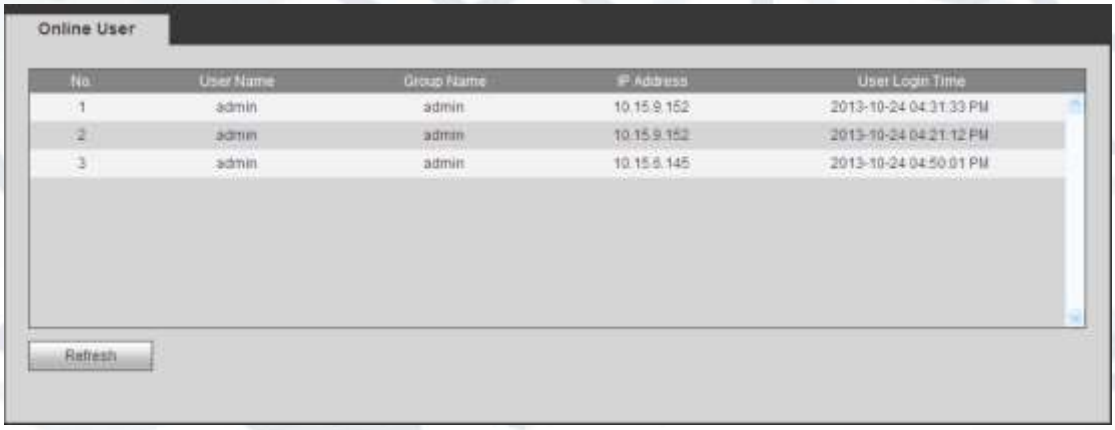

Figure 5-100

5.10 Playback

Click Playback button, you can see an interface is shown as in Figure 5-101.

Please set record type, record date, window display mode and channel name.

You can click the date on the right pane to select the date. The green highlighted date is system current date and the blue highlighted date means it has record files.

Figure 5-101

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Then please click File list button, you can see the corresponding files in the list. See Figure 5-102.

Figure 5-102

Select a file you want to play and then click Play button, system can begin playback. You can select to playback in full-screen. Please note for one channel, system cannot playback and download at the same time. You can use the playback control bar to implement various operations such as play, pause, stop, slow play, fast play, etc. See Figure 5-103.

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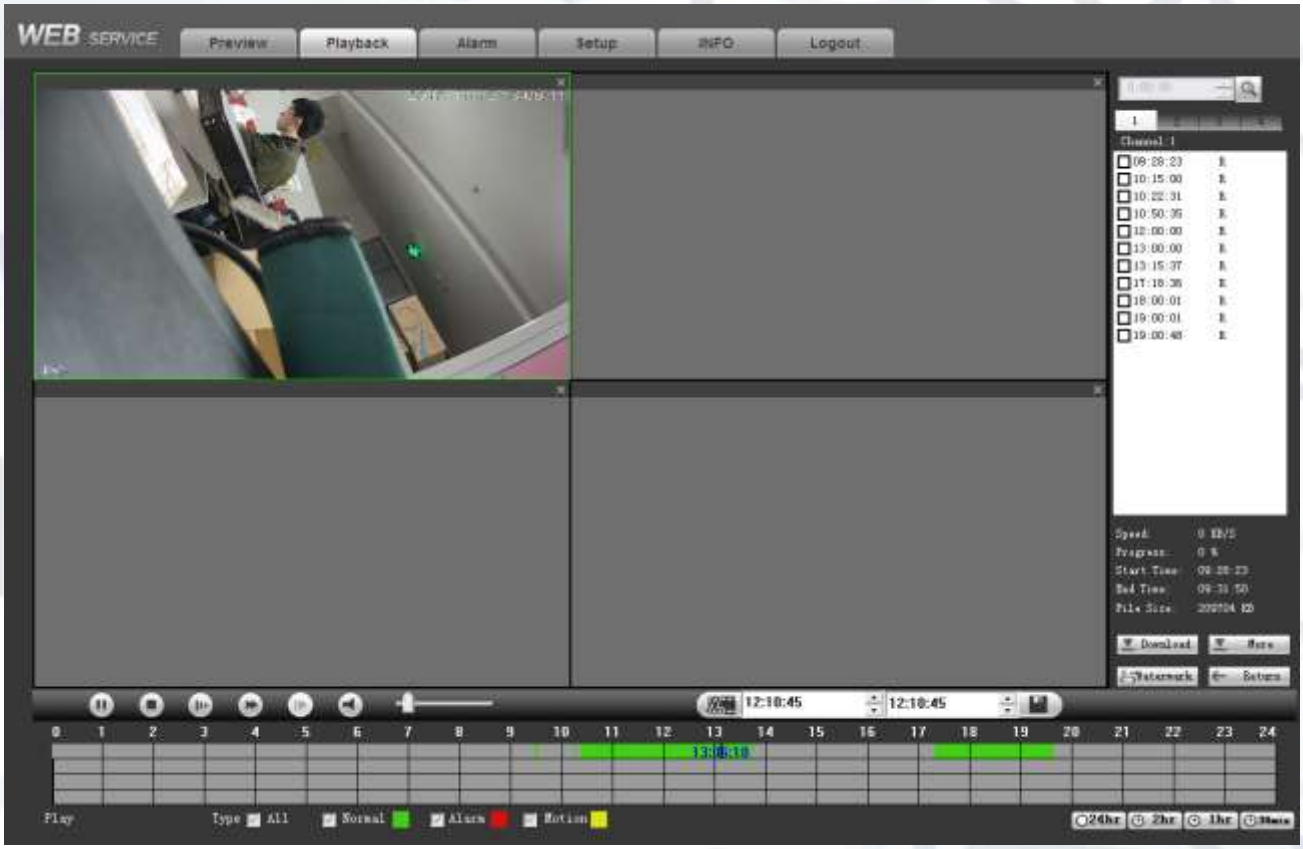

Figure 5-103

Select the file(s) you want to download and then click download button, you can see an interface shown as in Figure 5-104. The Download button becomes Stop button and there is a process bar for your reference. Please go to you default file saved path to view the files.

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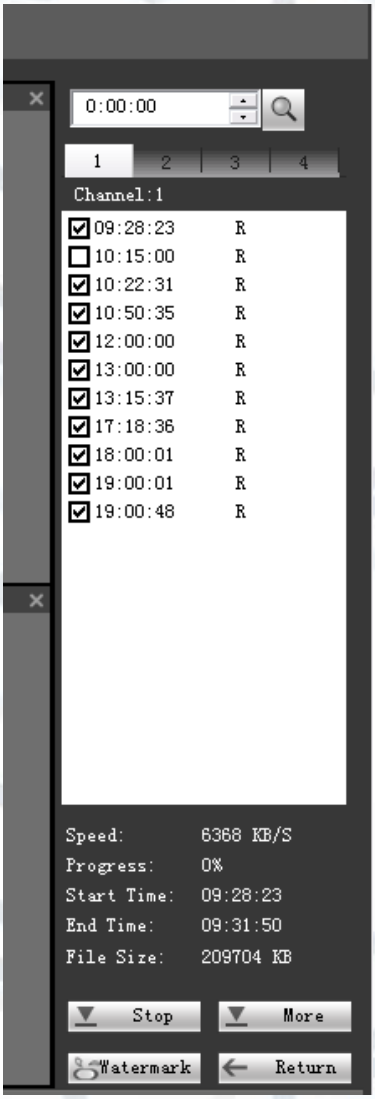

Figure 5-104

Load more

Click More button in Figure 5-104, you can see an interface shown as in Figure 5-105. It is for you to search record or picture. You can select record channel, record type and record time to download.

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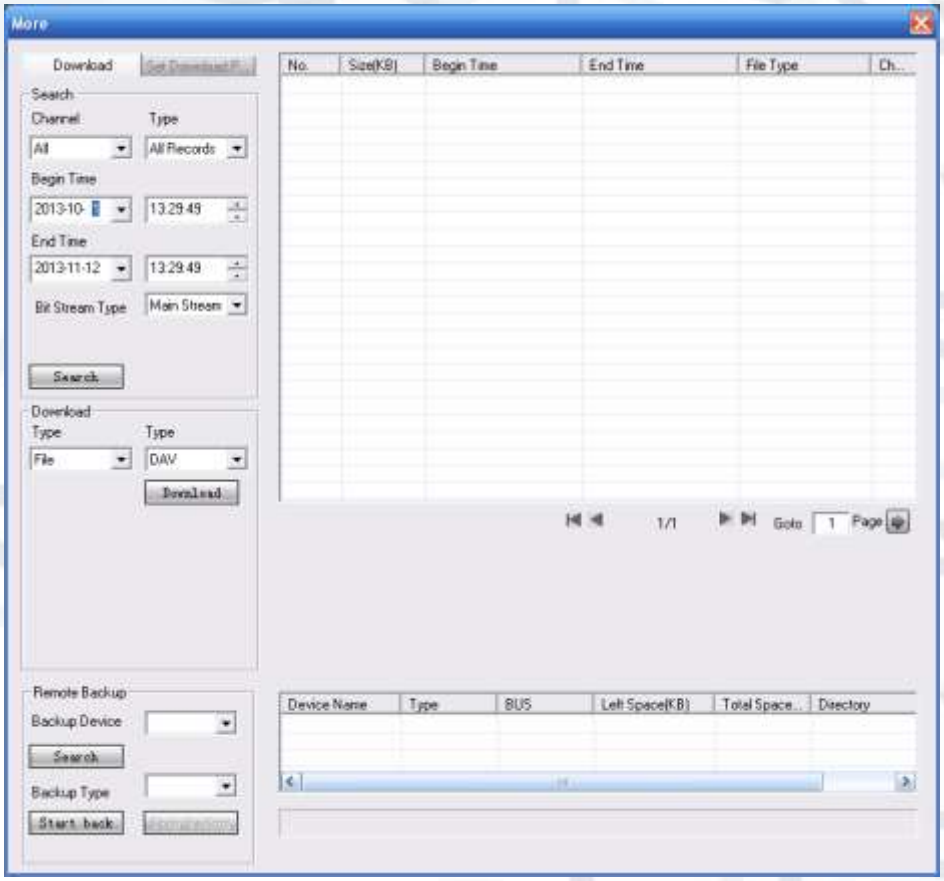

Figure 5-105

Watermark

Watermark interface is shown as in Figure 5-106. Please select a file and then click Verify button to see the file has been tampered with or not

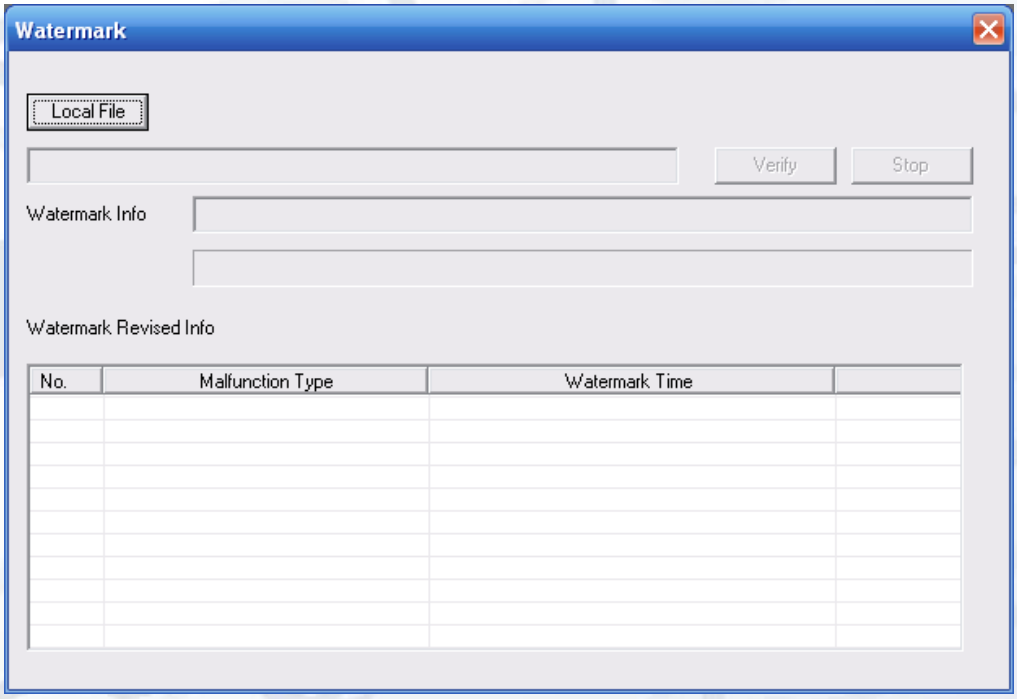

Figure 5-106

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5.11 Alarm

Click alarm function, you can see an interface is shown as Figure 5-107.

Here you can set device alarm type and alarm sound setup (Please make sure you have enabled audio function of corresponding alarm events).

Figure 5-107

Please refer to the following sheet for detailed information:

Type	Parameter	Function
Alarm Type	Video loss	System alarms when video loss occurs.
	Motion detection	System alarms when motion detection alarm occurs.
	Tampering	System alarms when camera is viciously masking.
	Disk full	System alarms when disk is full.
	Disk error	System alarms when disk error occurs.
	External alarm	Alarm input device sends out alarm.
	IPC external alarm	It refers to the on-off signal from the network camera. It can activate the NVR local activation operation.
	IPC offline alarm	System can generate an alarm when the network camera and the NVR are disconnected.
Operation	Prompt	Check the box here, system can automatically pops up an alarm icon on the Alarm button in the main interface when there is an alarm.
Alarm Sound	Play alarm sound	System sends out alarm sound when an alarm occurs. You can specify as you wish.
	Sound path	Here you can specify alarm sound file.

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5.12 Log out

Click log out button, system goes back to log in interface. See Figure 5-108.

You need to input user name and password to login again.

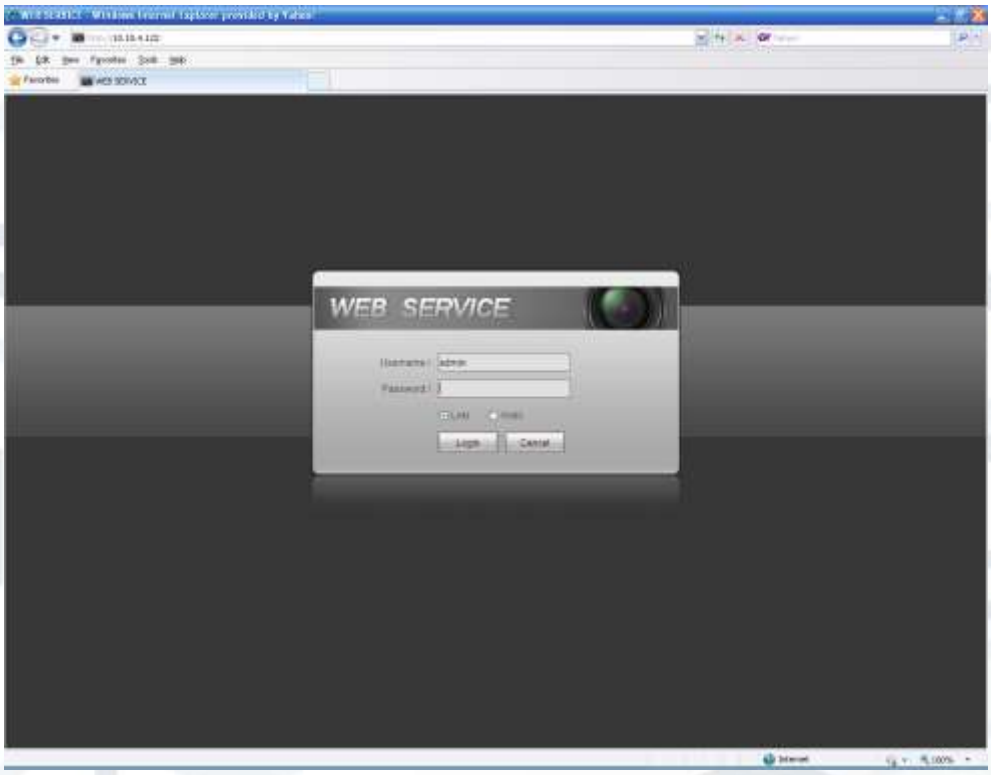

Figure 5-108

5.13 Un-install Web Control

You can use web un-install tool “uninstall web.bat” to un-install web control.

Please note, before you un-install, please close all web pages, otherwise the un-installation process cause an error.

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6 FAQ

1. Device cannot boot up properly.

These are the following possibilities:

- Input power is not correct.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something wrong with HDD ribbon.
- Front panel error.
- Main board is damaged.

2. Device often automatically shuts down or stops running.

These are the following possibilities:

- Input voltage is not stable or this is too low.
- HDD malfunction or something is wrong with the internal disk.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

3. System cannot detect hard disk.

These are the following possibilities:

- HDD is broken.
- HDD internal disk is damaged.
- HDD cable connection is loose.
- Main board SATA port is broken.

4. There is no video output whether this is one-channel, multiple-channel or all-channel output.

These are the following possibilities:

- Program is not compatible. Please upgrade to the latest version.
- Brightness is set to the ‘0’ value. Please restore factory default setup.
- There is no video input signal or This is too weak.
- Check privacy mask setup or your screen saver.
- Device hardware malfunctions.

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5. Real-time video color is distorted.

These are the following possibilities:

- When using the BNC output, the NTSC and PAL setup may not be correct. The real-time video will become black and white.
- Device and monitor resistance is not compatible.
- Video transmission is too long or degrading is too huge.
- Device color or brightness setup is not correct.

6. I cannot search local records.

These are the following possibilities:

- HDD internal disk is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

7. Video is distorted when searching local records.

These are the following possibilities:

- Video quality setup is too low.
- Program read error, bit data is too small. If there is mosaic in the full screen, please restart the device to solve this problem.
- HDD internal disk error.
- HDD malfunction.
- Device hardware malfunctions.

8. There is no audio when monitoring.

These are the following possibilities:

- This is not a power picker.
- It does not have powered acoustics.
- Audio cable is damaged.
- Device hardware malfunctions.

9. There is audio when monitoring but there is no audio when system playback.

These are the following possibilities:

- Setup is not correct. Please enable audio function.
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

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10. Time display is not correct.

These are the following possibilities:

- Setup is not correct.
- Battery contact is not correct or voltage is too low.
- Crystal is broken.

11. Device cannot control PTZ.

These are the following possibilities:

- Front panel PTZ error.
- PTZ decoder setup, connection or installations are not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and device protocols are not compatible.
- PTZ decoder and device addresses are not compatible.
- When there are several decoders, please add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control will not be stable.
- The distance is too far.

12. Motion detection function does not work.

These are the following possibilities:

- Period setup is not correct.
- Motion detection zone setup is not correct.
- Sensitivity is too low.
- For some versions, there is hardware limit.

1. I cannot log in client-end or web.

These are the following possibilities:

- Please make sure you have at least Windows XP installed on to your system. The system is compatible with Vista and Windows 7 also, but only 32-bit versions.
- ActiveX control has been disabled.
- No DirectX 8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with device program.

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14. It shows a mosaic or no video when previewed, either locally or remotely.

These are the following possibilities:

- Network fluency is not good.
- Client-end resources are limited.
- There is multiple-cast group setup in device. This mode can result in a mosaic being produced. Usually we do not recommend this mode.
- There is a privacy mask or channel protection setup.
- Current user has no right to monitor video footage.
- Local device video output quality is substandard.

15. Network connection is not stable.

These are the following possibilities:

- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or device network card is not good.

16. Burn error /USB2.0 back error.

These are the following possibilities:

- Burner and device are using the same data cable.
- System uses too much CPU resources. Please stop recording first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

17. Keyboard cannot control device.

These are the following possibilities:

- Device serial port setup is not correct
- Address is not correct
- When there are several switchers, power supply is not enough.
- Transmission distance is too far.

18. Alarm signal cannot be disarmed.

There are following possibilities:

- Alarm setup is not correct.
- Alarm output has been open manually.
- Input device error or connection is not correct.
- Some program versions may have this problem. Please upgrade your system.

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19. Alarm function is not working.

These are the following possibilities:

- Alarm setup is not correct.
- Alarm cable connection is not correct.
- Alarm input signal is not correct.
- There are two loops connected to one alarm device.

20. Remote control does not work.

These are the following possibilities:

- Remote control address is not correct.
- Distance is too far or control angle is too small.
- Remote control battery power is low.
- Remote control is damaged or device front panel is damaged.

21. Record storage period is not long enough.

These are the following possibilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.
- HDD capacity is not enough.
- HDD is damaged.

22. Cannot playback the downloaded file.

These are the following possibilities:

- There is no media player.
- No DirectX 8.1 or higher graphic acceleration software has been installed.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

23. I forgot local menu operation password or network password

Please contact your local service engineer for help. They will be able to guide you to solving this problem.

24. There is no video. The screen is in black.

These are the following possibilities:

- IPC IP address is not correct.
- IPC port number is not correct.
- IPC account (user name/password) is not correct.

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25. The displayed video is not complete.

Please check the current resolution setup. If the current setup is 1920x1080, then you need to set the monitor resolution as 1920x1080.

26. There is no HDMI output.

These are the following possibilities:

- Displayer is not in HDMI mode.
- HDMI cable connection is not correct.

27. The video is not fluent when I view in multiple-channel mode from the client-end.

These are the following possibilities:

- The network bandwidth is not sufficient. The multiple-channel monitor operation needs at least to be 100M or higher.
- Your PC resources are not sufficient. For 16-ch remote monitor operation, the PC shall have the following recommended specification setup: Quad Core processor, 2G or higher memory, independent displayer, graphics card memory 256MB or higher.

Daily Maintenance

- Please use a brush to clean the board, socket connector and the chassis regularly.
- The device shall be soundly earthed in case there is any audio/video disturbance. Keep the device away from the static or induced voltage.
- Please unplug the power cable when you remove the audio/video signal cable, RS232 or RS485 cable.
- Always shut down the device properly. Please press the power button in the front pane for at least three seconds to shut down the device. Otherwise it may result in HDD malfunction.
- Please make sure the device is away from the direct sunlight or other heating sources.
- Please keep a decent level of ventilation around the device.
- Please check and maintain the device regularly.

Note:

- **This manual is for reference only. Slight differences may be found when using the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
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- **Please visit our website: www.adata.co.uk or contact your local service engineer for more information.**

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Connect remotely to control and view footage from your NVR security camera system, with the iAPOLLO Mobile App.

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